



SFFMA Volunteer Fire Chief Academy

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SFFMA

Volunteer Fire Chiefs

Academy

Operations Management

Safe Practices



Protective Clothing



Work Environments



Station Activities



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Weekend Two (Homework Assignment)



- A. What is your current 2016 fire department's operating budget? What was your 2015 and 2014 operating budgets?
- B. What is your current 2016 fire department debt service obligations? What was your 2015 and 2014 fire department debt service obligations?
- C. Total cost for fire services (all services offered by your fire department) per capita? Using your current budget and population served.
- D. Total 2015 responses per 1,000 population (including fire, medical and false alarm responses, etc.). What were your 2014 and 2013 total responses per 1,000 population?
- E. What is your number of firefighters per 1,000 people
- F. What is your present ISO Public Protection Classification?
- G. What was your former ISO Public Protection Classification?
- H. What is your present fire department's service district size and population?
- I. What was your fire department's service district size and population ten years ago?

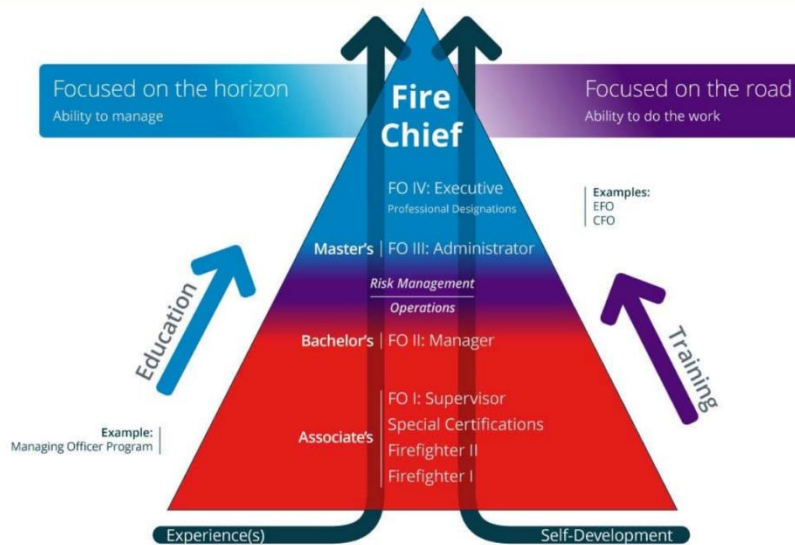


Fire and Emergency Services Higher Education (FESHE)



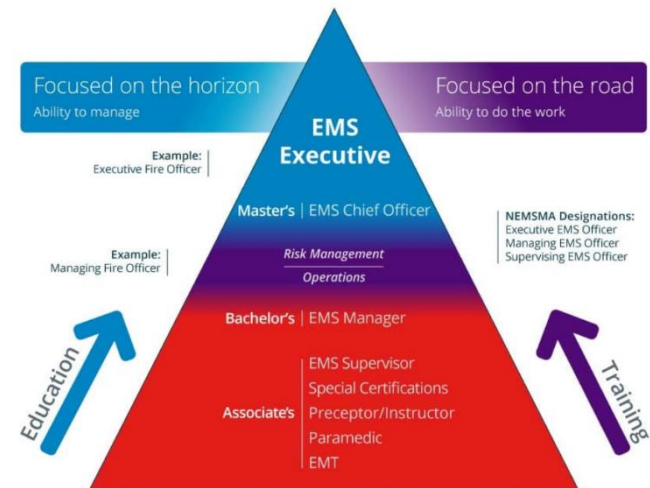
U.S. Fire Administration
Working for a Fire Safe America

National Professional Development Model



U.S. Fire Administration
Working for a Fire Safe America

EMS Professional Development Model



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Introduction

Risk Management/Safety Programs

Introduction



- **What is Risk Management?**
 - Enterprise Risk Management (ERM)
- **Fire Ground**
 - Emergency Scene Tactics And Changes
- **Apparatus**
- **Personal Health and Wellness**
- **Station**
- **Resources**
- **Highway Incidents**
- **Hazardous Material Incidents**
- **TIMAS and AHIMTs**



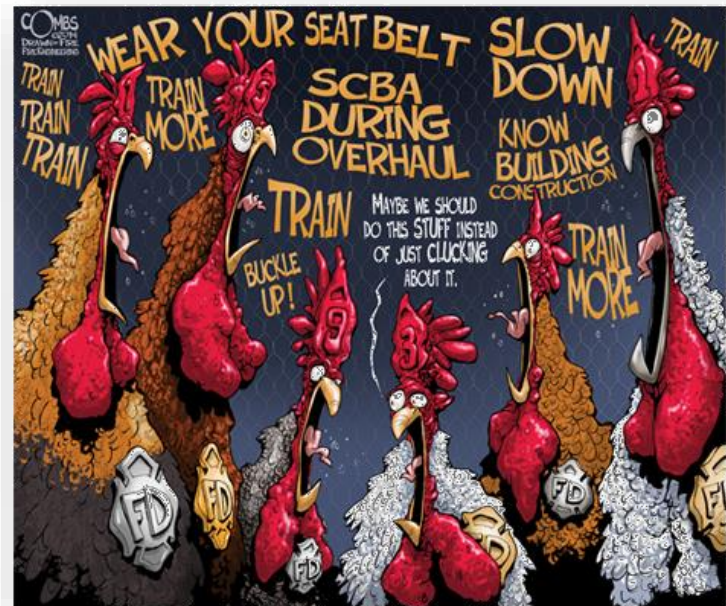
The identification, analysis, assessment, control, and avoidance, minimization, or elimination of unacceptable risks.



Objectives



- Define risk management pertaining to all areas within your department
- Understand five components for the risk management process.
- Identify risk management practices in your agency and the resources available.
- Understand emergency scene tactics and changes occurring



Need (National)



Table A2:
Average Number of Fires and Non-Fire Incidents by Community Size, 2012-2014.

	Community Size									
	1,000,000 or more	500,000 to 999,999	250,000 to 499,999	100,000 to 249,999	50,000 to 99,999	25,000 to 49,999	10,000 to 24,999	5,000 to 9,999	2,500 to 4,999	under 2,500
Fires	4,597	2,308	988	464	191	106	60	34	23	11
Rescue, EMS etc.,	138,135	64,073	22,857	12,405	4,842	1,944	979	337	164	43
False alarm responses	15,180	5,556	2,110	1,222	567	304	136	54	21	5
Mutual aid responses	1,672	1,198	647	347	196	133	86	55	32	12
Hazardous materials	1,782	779	308	177	84	50	25	11	4	1
Other hazardous	2,108	1,082	594	285	147	72	37	19	9	2
All other responses	83,899	12,631	6,606	2,715	1,139	481	206	78	29	7
Total	252,172	87,559	34,109	17,487	7,003	3,122	1,509	581	278	76

Table 3:
Causes of Volunteer Firefighter Injuries at the Fireground, 2012-2014 Average.

Cause of Injury	Volunteer Only		All Firefighters	
	Number	Percent	Number	Percent
Exposure to fire products	1,125	18.1%	2,615	11.3%
Exposure to chemicals, etc.	160	2.5%	540	2.3%
Fall, jump, slip, trip	1,580	25.3%	5,600	24.2%
Overexertion, strain	1,205	19.3%	6,040	26.1%
Contact with object	870	14.0%	2,575	11.1%
Struck by	240	3.8%	1,210	5.2%
Extreme weather	430	6.9%	760	3.3%
Other	630	10.1%	3,815	16.5%
Total	6,240	100.0%	23,155	100.0%

Source: NFPA Annual Fire Experience Survey, 2012-2014

Volunteer firefighter injuries are based on results for departments that protect communities of less than 10,000 population these departments are comprised mostly of volunteer firefighters.

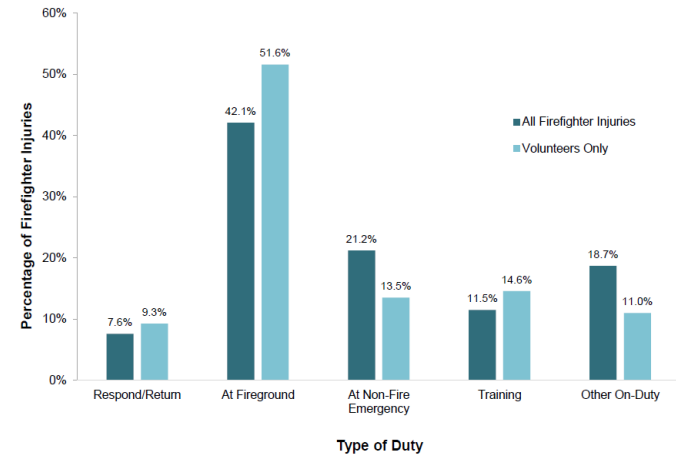


Figure 1: Firefighter Injuries by Type of Duty for All Firefighters and Volunteers Only.



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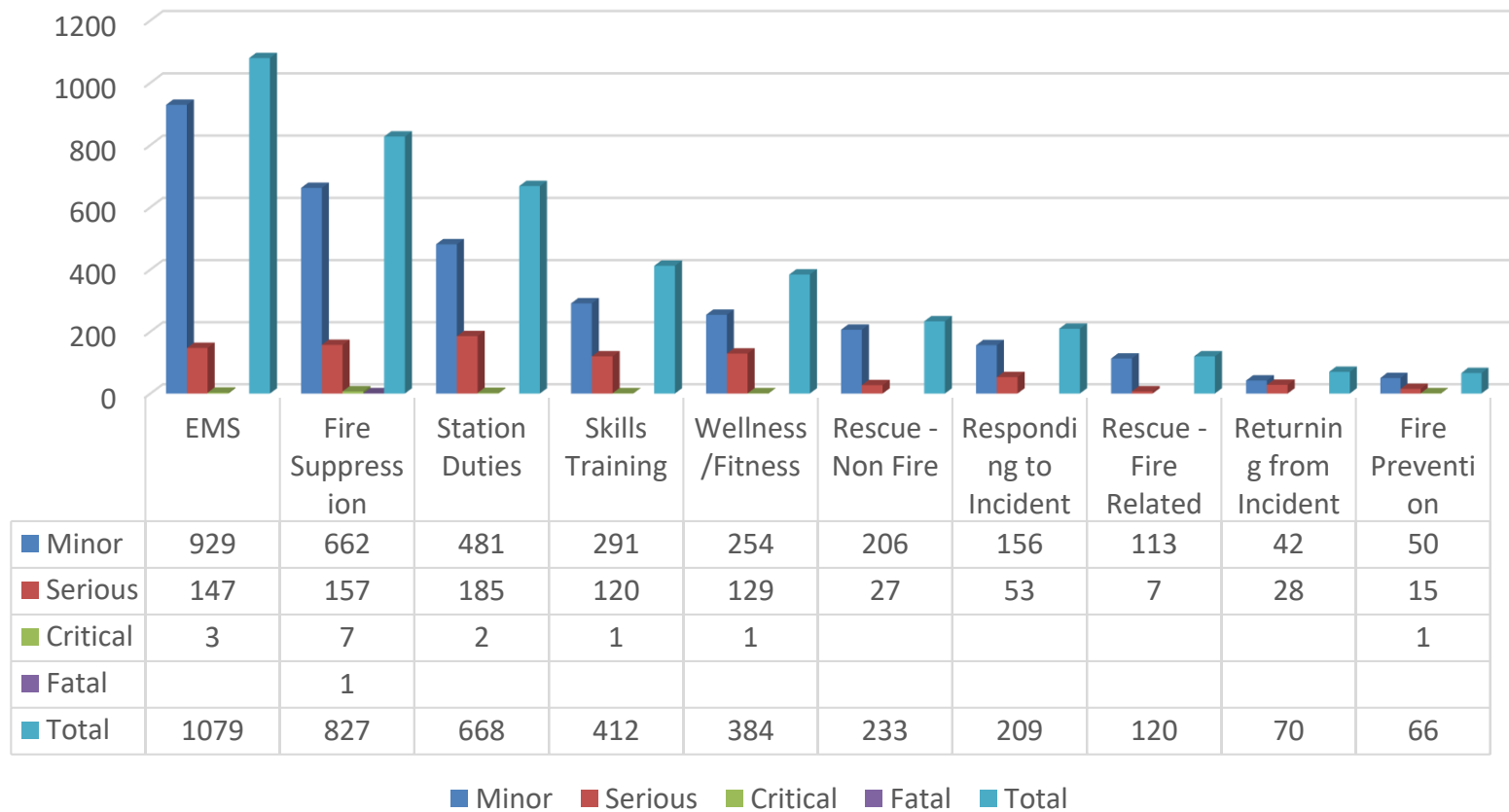
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Need (TCFP)



Injuries 2017



Texas Mutual (1st Qtr. 2016)



Cause of Loss	Specific Cause of Loss	Incurred \$	Claims	Per Claim
STRAIN/INJURY	Strain or injury by lifting	40,844	6	6,807
STRAIN/INJURY	Strain or injury by miscellaneous	896	4	224
STRAIN/INJURY	Strain or injury by reaching	23,916	3	7,972
STRAIN/INJURY	Strain or injury by pushing or pulling	5,400	3	1,800
STRAIN/INJURY	Strain or injury by twisting	1,132	2	566
STRAIN/INJURY	Strain or injury by repetitive motion	189	1	189
STRAIN/INJURY	Strain or injury by holding or carrying	8,344	1	8,344
FALL/SLIP OR TRIP	Fall, slip, or trip injury on same level	1,269	6	212
FALL/SLIP OR TRIP	Fall, slip, or trip injury from different level (ele	1,266	6	211
FALL/SLIP OR TRIP	Fall, slip, or trip injury, miscellaneous	10,729	2	5,364
FALL/SLIP OR TRIP	Fall, slip, or trip injury from ladder or scaffoldin	0	1	0
FALL/SLIP OR TRIP	Fall, slip, or trip injury on stairs	0	1	0
INDUSTRIAL HYGIENE	Absorption, ingestion, or inhalation, miscellaneous	21,442	14	1,532
MISC. CAUSES	Miscellaneous - other	34,258	8	4,282
MISC. CAUSES	Miscellaneous - other than physical cause of injury	0	1	0
MOTOR VEHICLE	Collision or sideswipe with another vehicle	1,442	5	288
MOTOR VEHICLE	Vehicle upset	232,199	3	77,400
STRUCK BY	Struck or injured by fellow worker; patient	3,288	2	1,644
STRUCK BY	Struck or injured by motor vehicle	0	1	0
STRUCK BY	Struck or injured by object being lifted or handled	24,034	1	24,034
STRUCK BY	Struck or injured by falling or flying object	0	1	0
CUT/PUNCTURE/SCRAPE	Cut, puncture, scrape, injured by miscellaneous	404	2	202
CAUGHT IN/UNDER/BETWEEN	Caught in, under, or between machine or machinery	186	1	186
STRIKE AGAINST	Striking against or stepping on stationary object	0	1	0

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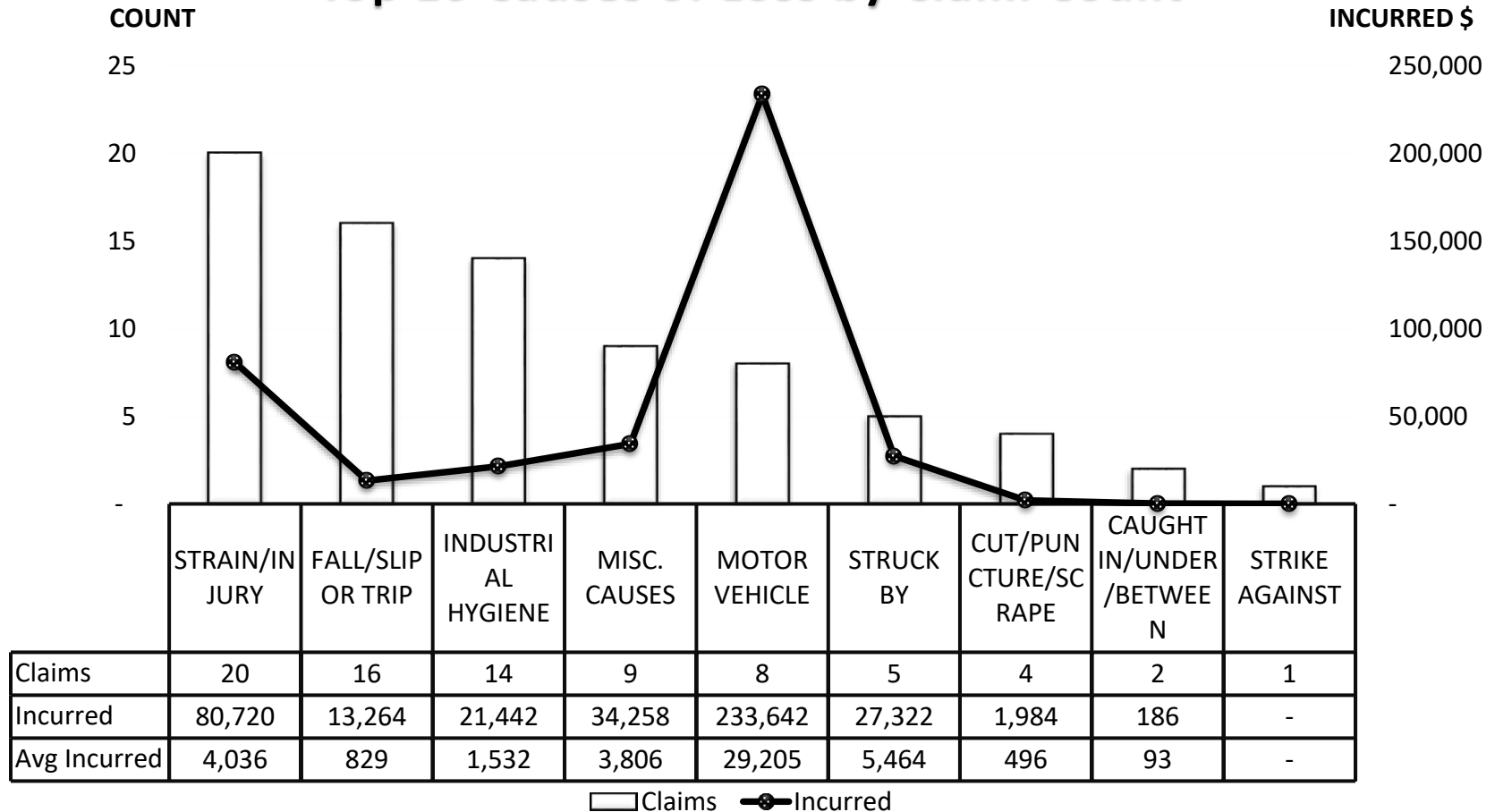


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Top 10 Causes of Loss by Claim Count



The Real Need



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Risk Management

Risk Management/Safety Programs –Session III

Goal



To reduce your liabilities through an informal or formal loss control and risk management practices and/or processes within your department. While identifying resources to help with the implementation phases of these methods.



What Is Risk Management?



- Literally speaking, it begins with the identification and assessment of **risk management is the process of minimizing or mitigating the risk** followed by **optimum** use of **resources** to monitor and reduce the same.
- Risk generally results from uncertainty. In organizations this risk can come from **uncertainty in the work place (demand, supply and community market)**, failure of projects, expectations, accidents, natural disasters etc. There are different tools to deal with the same depending upon the kind of risk.
- Ideally in risk management, a risk prioritization process is followed in which those risks that pose the threat of great loss and have great probability of occurrence are dealt with first.

Risk Prioritization Process



IMPACT	ACTIONS		
SIGNIFICANT	Considerable Management Required	Must Manage and Monitor Risks	Extensive Management essential
MODERATE	Risk are bearable to certain extent	Management effort worthwhile	Management effort required
MINOR	Accept Risks	Accept but monitor Risks	Manage and Monitor Risks
	LOW	MEDIUM	HIGH
	LIKELIHOOD		

- The two factors govern the action required:
 - the probability of occurrence
 - the impact of the risk.



Process of Risk Management



- First step is the assessment of risk
- Evaluation
- Management
- Last step is measuring the impact.



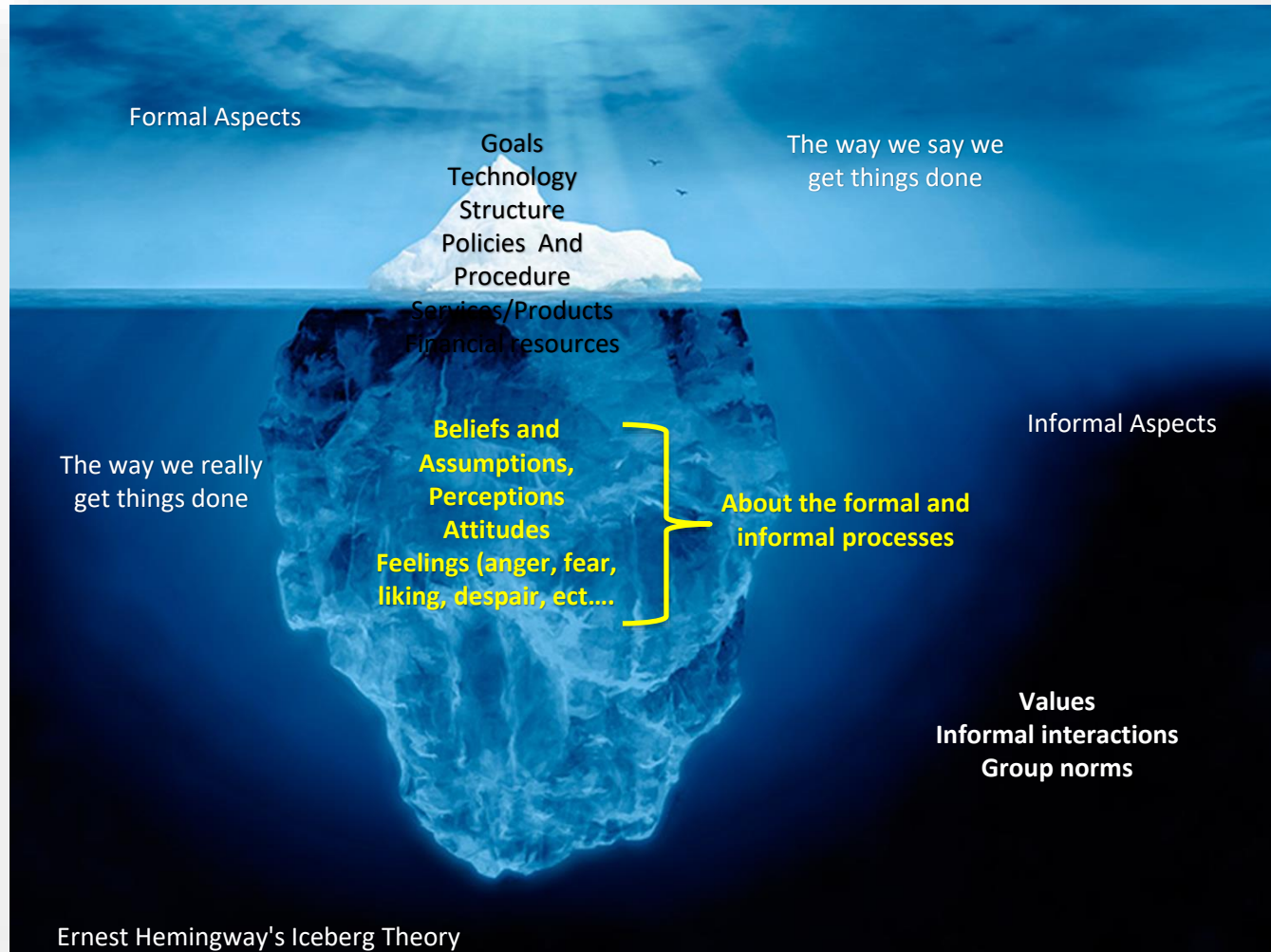
Various Aspects of Risk Management



- **What does risk management mean?**
 - The identification, assessment and planning and controlling social, economic or physical threat to the organization?
- **Is the concept only about transferring the risk or reduce its negative effects?**
 - No - much deeper concept that also involves risk avoiding as well as risk taking. Every work place involves some or other kinds of risk. Sometimes you avoid, sometimes you control the phenomenon and sometimes you simply let it come.



Cultural Iceberg Theory



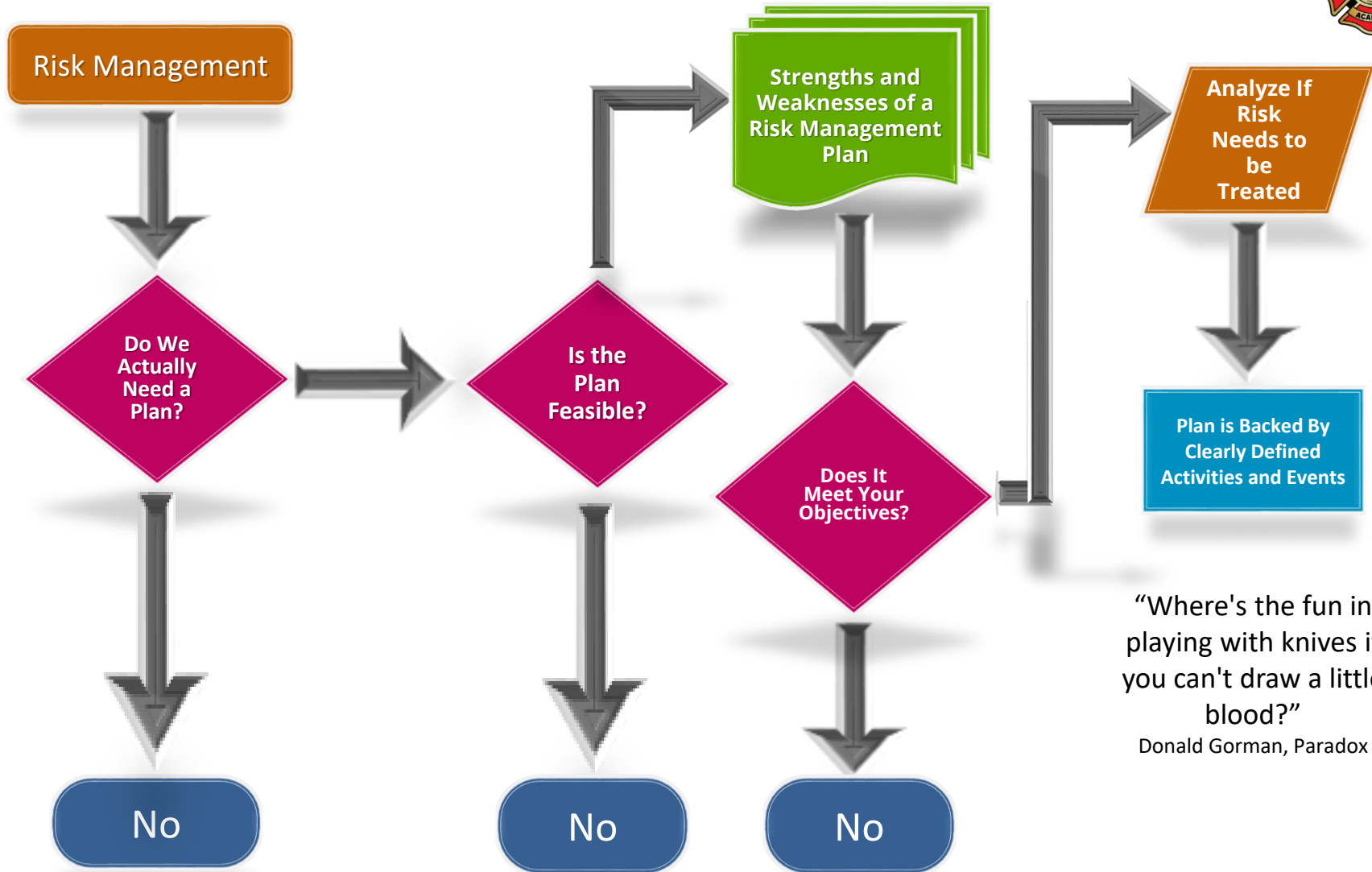
What are the Benefits of Risk Management?



- More effective decisions
- Efficient allocations of resources
- Increased standard of accountability
- Creativity and Innovation
- Increase capacity to manage competing issues
- Flexibility in meeting objectives
- Transparent decision making



Various Aspects of Risk Management (Cont.)



"Where's the fun in playing with knives if you can't draw a little blood?"

Donald Gorman, Paradox



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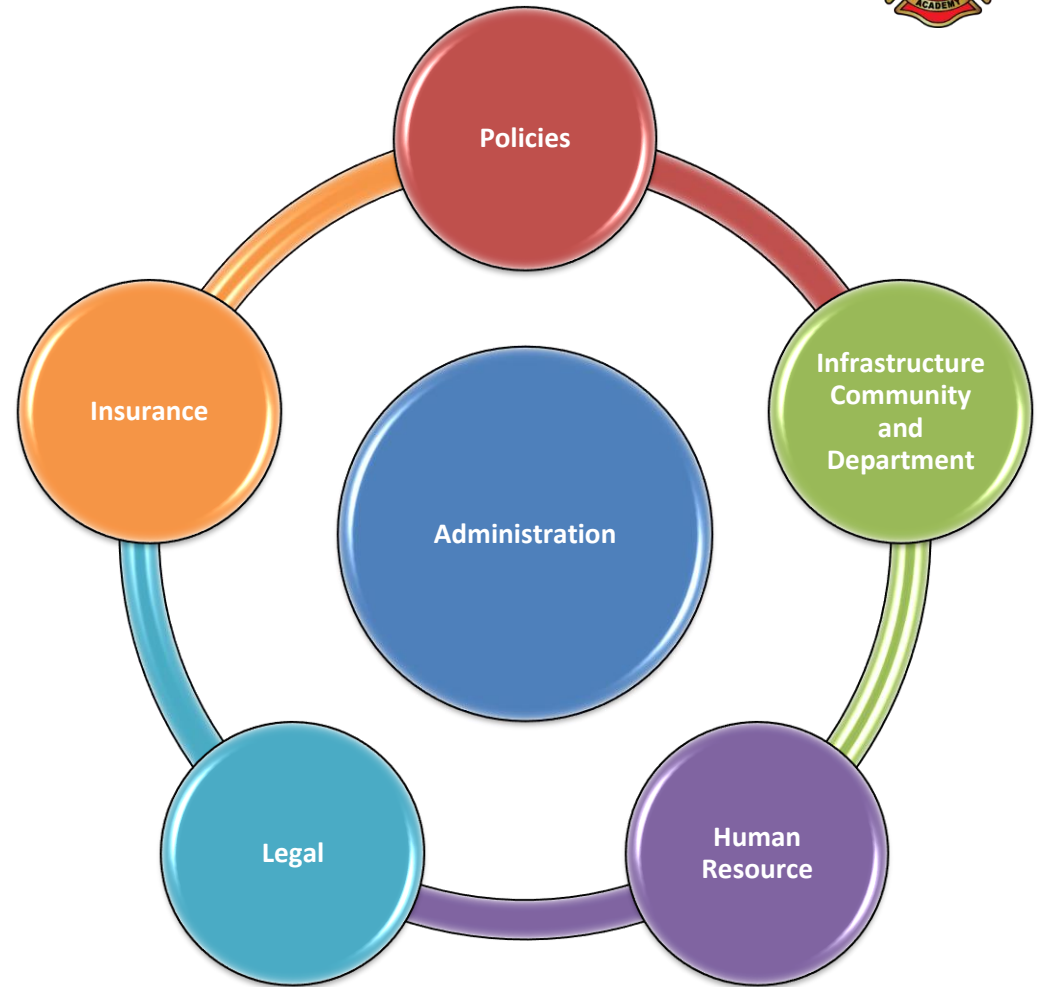
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Risk Management Plan



Simply put - A good risk management plan carries number of tools and strategies to mitigate risk. The strategy may be to avoid risk or transfer a component of it to another project so that the impact is reduced.

- **Lists**
- **Prioritize**
- **Action Plan (NIMS)**
- **Team Involvement**
- **Communications**



Enterprise Risk Management (ERM)



In simpler terms
Enterprise Risk
Management includes all
the tools and processes
employed by an
organization to manage
and control risks and grab
more opportunities in the
market place. It provides
a framework for better
risk management.

- Exit strategy
- Reduction strategy
- Share or Insure strategy
- Accept strategy



ERM Framework



ERM Framework				
Process Steps	Types of Risk			
	Hazard	Financial	Operational	Strategic
Establish Context				
Identify Risks				
Analyze/Quantify Risks				
Integrate Risks				
Assess/Prioritize Risks				
Treat Risk				
Monitor and Review				

- Hazard Risk: Natural disasters, liability damages, Property damages due to fire, tornado etc, injury or illness to its employees.
- Financial Risk: Risks like processing risk, commodity risk, pricing risk, asset risk, liquidity risk.
- Operational Risk: labor relations, customer satisfaction, product failure etc.
- Strategic Risk: Competition, fluctuation in demand and market, regulatory and political trends, social trend, capital availability.



Emergency Service Risk Management



The systematic application of management policies, procedures and practices to tasks of identifying, analyzing, assessing, treating and monitoring risk.



Risk Management and Best Practices





Fire Operations Management

Risk Management/Safety Programs



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Objectives



Review Standards and regulations that affect Emergency Operations in Texas.

Explore Staffing issues in Texas Volunteer and Combination Fire Departments.

Discuss Emergency response strategy and tactics based upon available resources.

Modern Firefighting Principles.

Review Rural Water Supply Management.

Standards and Regulations



- Difference between Standards and Regulations
- Standards for Safety and Efficiency
 - NFPA
 - SFFMA
 - OSHA
- Regulations that affect the Fire Service
 - TCFP
 - DSHS
 - DPS
 - OSHA
 - USDOT



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of Transportation**



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Staffing Issues



- Size DOES matter!
- Operational planning must match resources
- Intelligent Assessment.

“Many fire departments are operating at staffing levels below recommended levels, and with the state of the current economy we will likely not see a lot of improvement in the near future. But operating with fewer numbers does not mean our firefighting forces cannot be aggressive, safe and successful.

We must explore tactics, strategies, and philosophies that can help our departments to continue to provide safe and effective firefighting services to our community, even when our department must arrive at the fireground with limited staffing.”



Staffing Issues



“Staffing has been a one-way argument for too long. It has stagnated strategic and tactical evolution. We must address successful strategies for operating with fewer people on the fireground because this is a reality. If we ignore this reality and simply keep stating that we must have more, we are increasing firefighter risk. To continue to say that 4 or more is the only way, is dangerous to the reality of 2 or 3 arriving. To continue this way, we only allow two options on arrival,

- 1) Do nothing (Unacceptable...what is our mission?) or***
- 2) Use tactics and strategies developed for 4 person crews...this WILL result in firefighter injuries and deaths.***

Aggressive strategies CAN be deployed for 2 or 3 person arriving crews.

Aggressive attack does not have to be interior.”



Operational Strategies



- **History of Firefighting Principles**
- **UL and NIST Studies**
- **Modern Firefighting Practices**
 - **UL \NIST Studies**
 - **Efficiency and Safety for our customers, both internal and external**
 - **No Compromise!**
 - **What are the Opportunities**

NIST
National Institute of
Standards and Technology
U.S. Department of Commerce



Operational Strategies



Modern Firefighting Practices

Flow Path Management

- [NIST Wind-Driven Fire Studies](#)
- Air ingress and egress
- Ventilation Limiting
- [Control the Door](#)
- Close the Door Message for Occupants



Operational Strategies



Transitional Attack

- Aggressive Interior Attack vs Aggressive Exterior Attack
- SLICE-RS
 - Sample SOG
- RECEO-VS
- VEIS

““Aggressive” is an ACTION... not a Location!”

Structural Fire Tactical Goals **S-L-I-C-E-R-S**

SEQUENTIAL ACTIONS:

SIZE UP

LOCATE FIRE

IDENTIFY & CONTROL FLOW PATH

COOL SPACE FROM SAFEST LOCATION

EXTINGUISH FIRE

ACTIONS OF OPPORTUNITY:

RESCUE

SALVAGE



Operational Strategies



Modern Attack

- Innovation
- Residential
- Commercial
- [Playbook](#)
- CAFS
 - [Topeka](#)
 - [Shumway](#)



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Operational Strategies



Other Considerations

- Rural Water Supply Challenges
- Stressed Budgets
- Morale



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Operational Strategies



And Most Importantly.....

TRAINING, TRAINING, TRAINING

**“A FIREFIGHTER
WITHOUT
TRAINING
IS LIKE
AN UNSHARPENED
PENCIL-POINTLESS.”**



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Operational Strategies



Additional Resources

- [Modern Fire Behavior Handout](#)
- [Small Unit Firefighting PPT](#)
- [Can You Really Push Fire?](#)
- [Flow Paths Rules of Engagement](#)
- [Video: LA County- "Softening the Target"](#)
- [Fireground Command Sheet](#)
- [Art of Reading Smoke](#)





Fire Ground Risk Management

Risk Management/Safety Programs –Session III

Introduction



- Understand a proficiency cycle with the goal of preventing skill degradation and operational deficiencies.
 - Organizational and personal behavior
 - Understand systems for mitigating incident processes.
 - Incident Familiarization
 - Engineering utilization



Concern



The dynamics of emergencies destroy the fabric of safety and normalcy for victims, create hostile environments, and tax the abilities of systems.



Risk Management / Safety

Fundamental



- **Normalization of Deviance** - people within the organization become so much accustomed to a deviant behavior that they don't consider it as deviant, despite the fact that they far exceed their own rules for the elementary safety.

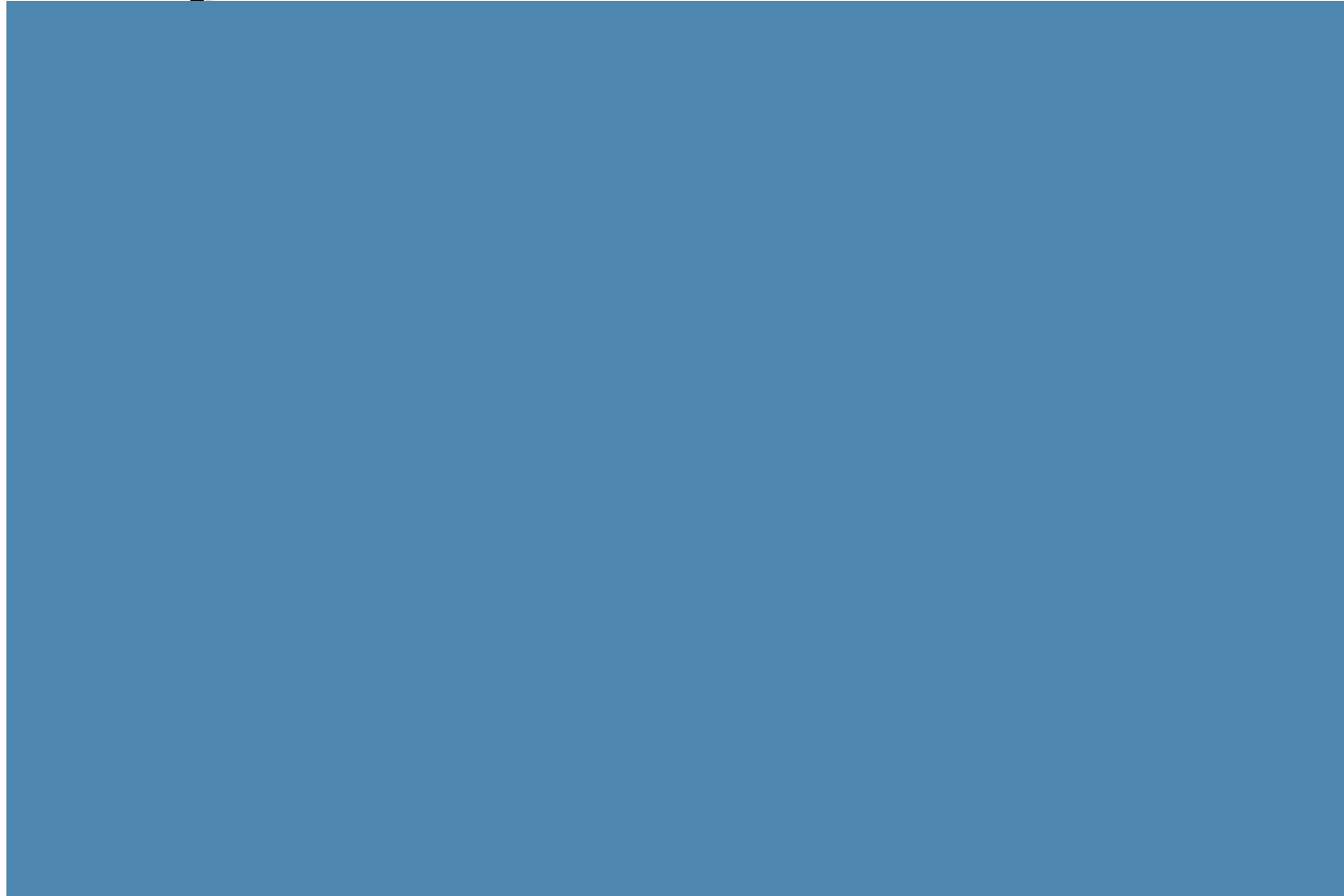
(Diane Vaughan Ph.D.)



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Normalization of Deviance

(Cont.)



Normalization of Deviance (Cont.)



- **Prevention**
 - Understanding
 - Legal Liabilities
 - Policies
 - Training/Education
 - Enforcement
 - Discipline
 - Self
 - Others



**Don't
Address It,
You Bless It!**

Risk Assessment



Risk Assessment/Rules of Engagements			
Fire Fighter Injury/Life Safety Risk	High Probability of Success	Marginal Probability of Success	Low Probability of Success
Low Risk	Initiate offensive operations. Continue to monitor risk factors.	Initiate offensive operations. Continue to monitor risk factors.	Initiate offensive operations. Continue to monitor risk factors.
Medium Risk	Initiate offensive operations. Continue to monitor risk factors. Employ all available risk control options.	Initiate offensive operations. Continue to monitor risk factors. Be prepared to go defensive if risk increases.	Do not initiate offensive operations. Reduce risk to fire fighters and actively pursue risk control options.
High Risk	Initiate offensive operations only with confirmation of realistic potential to save endangered lives	Do not initiate offensive operations that will put fire fighters at risk for injury or fatality	Initiate defensive operations only.



Hazard



Definition

A hazard is any condition, activity, object, substance or force that exists within the working environment with the potential to cause injury, negatively affect health and/or the environment.

Characteristics

- **Visible Hazard** – those readily seen, heard, smelt, tasted or otherwise sensed
- **Hidden Hazard** – Those not readily seen without prompting or more detail searching.
- **Developing Hazard** – Those which get worse over time, may not be detected without measurement.

10 Rules of Engagement influencing Factors (Cont.)



Time
Of
Response

Wind

Structure Type

Occupants

Resources

Capabilities

Location
And
Extent

Time
Of
Involvement

Involvement
Conditions

Occupancy

Time	
Discovered	
Dispatched	
Response	
Equipment deployment / Walk Around	
Apparatus Needed	
Engines	
Tankers/Tenders	
Ladders/Master Streams	
Personnel Needed	
Rescue/Search	
Suppression/Attacked Lines	
Ventilation	
Rehab.	

Hazard and Risk



Hazard/Cause



Source of Danger

Risk/Effect



Exposure of Danger

Hazard and Risk (Cont.)



Hazard/Cause



Source of Danger

Risk/Effect



Exposure of Danger

Hazard and Risk (Cont.)



Hazard/Cause

Risk/Effect



Source of Danger

Exposure of Danger

Hazard and Risk (Cont.)



Hazard/Cause



Source of Danger

Risk/Effect

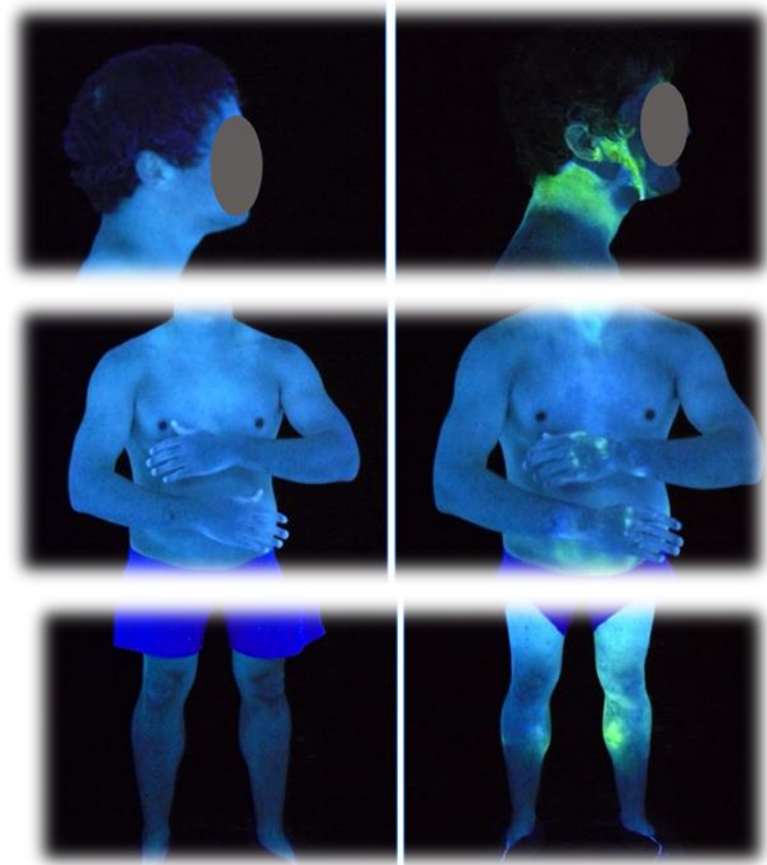


Exposure of Danger

Structural Fire Ground Operations



- **Smoke Toxicity** - When inhaled in a low-oxygen environment, cyanide becomes 10 times more toxic. Just the beginning.....
 - Autopsies and experimental data show that serious injury and death result from exposure to contact irritants, primarily hydrogen chloride, and the central systemic poisons, carbon monoxide (CO) and cyanide.
- **Skin heats it expands which increases external absorption**



Before And After Particle Exposure

Behavioral Risk Assessment



- **Thinksafe - SAM**

- S – Spot the hazard
- A – Assess the Risk
- M – Manage the change

- **STOP**

- S - Step Back
- T - Think
- O - Observe
- P - Proceed

- **PASS**

- P - Positive
- A - Attitude
- S - Safety
- S - System



Apparatus

Risk Management/Safety Programs –Session III

Objectives



To procure, operate, maintain, and replace apparatus that will maximize the safety, efficiency, and fiscal responsibility of your Fire Department.

Review the Standards relating to Fire Apparatus.

Understand the Importance of a Documented Maintenance Program.

Understand the need for a planned vehicle replacement program.

Understand the issues involved in purchasing Fire Apparatus.



Standards



- NFPA
- ISO
- NWCG
- TFS



TEXAS A&M
FOREST SERVICE

Standards



NFPA

- 1901 - Standard for Automotive Fire Apparatus
- 1906 - Standard for Wildland Fire Apparatus
- 1911 - Standard for the Inspection, Maintenance, Testing, and Retirement of In-Service. Automotive Fire Apparatus
- 1912 - Standard for Fire Apparatus Refurbishing
- 1914 - Standard for Testing Fire Department Aerial Devices
- 1915 - Standard for Fire Apparatus Preventive Maintenance
- 1071 - Standard for Emergency Vehicle Technician Professional Qualifications
- 1002 - Fire Department Vehicle Driver/Operator Professional Qualifications

Standards



ISO

- Differences exist from NFPA 1901
- [Engine Company Equipment List](#)
- [Ladder Company Equipment List](#)
- [FSRS Equivalency List](#)

Standards



NWCG

- [NIFC / NWCG](#)

Standards



TFS

- [HB 2604 Program](#)
- [HB 2604 Minimum Vehicle Standards](#)
- [HB 2604 Minimum Vehicle Standards with CAFS](#)

Vehicle Design



Design:

- Total weight distribution
- Chassis and suspension adequacy
- Vehicle size, location and baffling
- Tires and wheels
- Technological aids (l.e. ABS, driveline retarders, Stability Systems, ect.)

NFPA 1901 & Related Issues



NFPA 1901

- Lighting
- Reflective striping
- Safety enhancements...



NFPA 1901



- **Rear Reflective Markings**

- 50% of the rear-facing vertical surface of all vehicles must now be covered with reflective red and yellow stripes in a chevron pattern sloping downward from the center of the vehicle at a 45-degree angle.
- The stripes must be 6" wide, instead of the minimum combined width of 4" specified on the sides and front.
 - Although there is some latitude on the exact shade of yellow to be used, other colors may not be substituted.



Reflective Markings



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Documented Maintenance Program



- Importance of documentation
- Standards
- Credentials
- Testing



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Apparatus Replacement



- Repair or Replace?
- Apparatus Replacement Planning



Apparatus Purchasing



- Needs Assessment
- Specifications Development
- Purchasing Rules



Objectives



Describe apparatus features that should be considered for increasing the degree of safety.



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Introduction



- Types
- Design
- Ergonomic Considerations
- Functional Safety
- Maintenance Processes



Types



Vehicle Design



Design:

- Total weight distribution
- Chassis and suspension adequacy
- Vehicle size, location and baffling
- Tires and wheels
- Technological aids (l.e. ABS, driveline retarders, Stability Systems, ect.)

NFPA 1901 & Related Issues



NFPA 1901

- Lighting
- Reflective striping
- Safety enhancements...



NFPA 1901



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Reflective Markings



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Apparatus Design



Rear Safety Striping



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Apparatus Design



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Existing Apparatus Design



Jacksonville Beach Fire Department Apparatus



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Other Designs



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Upgrading or Refurbishing Fire Apparatus



NFPA 1901 – all must Fully enclosed seating meet the current standard

- Warning lights
- Reflective striping
- Slip resistance of walking surfaces and handrails
- A low voltage electrical system load manager
- Where the GVWR is 36,000 pounds or more,
- Ground and step lights
- Noise levels in the driving and crew
- Engine belts, fuel lines, and filters have been replaced
- Brakes, brake lines and wheel seals have been replaced or serviced
- Tires and suspension are in serviceable condition
- All horns and sirens are relocated
- Seat belts are available for every seat and are new or in serviceable condition
- Sign plates are present stating no riding on open areas
- A complete weight analysis shows the fire apparatus is not over individual axle or total GVW ratings
- The fire pump meets or exceeds its original pump rating
- Alternator output meets its rating
- Water tank and baffles are not corroded or distorted
- A transmission shift pump interlock is present
- All loose equipment in the driving and crew areas is secured
- The radiator has been serviced
- If so equipped, the generator and line voltage accessories
- If equipped with an aerial device, a complete test

Conclusion



- Emergency vehicle is designed to do the right job accurately.
- Emergency vehicle visibility and designed as a traffic control equipment to enhance personnel safety
- Ensure all equipment meets applicable requirements





Station

Risk Management/Safety Programs –Session III

What is a Fire Station ?



- Kitchen Facility
- Eating Facility
- Sleeping Facility
- Personal Hygiene Area
- Office

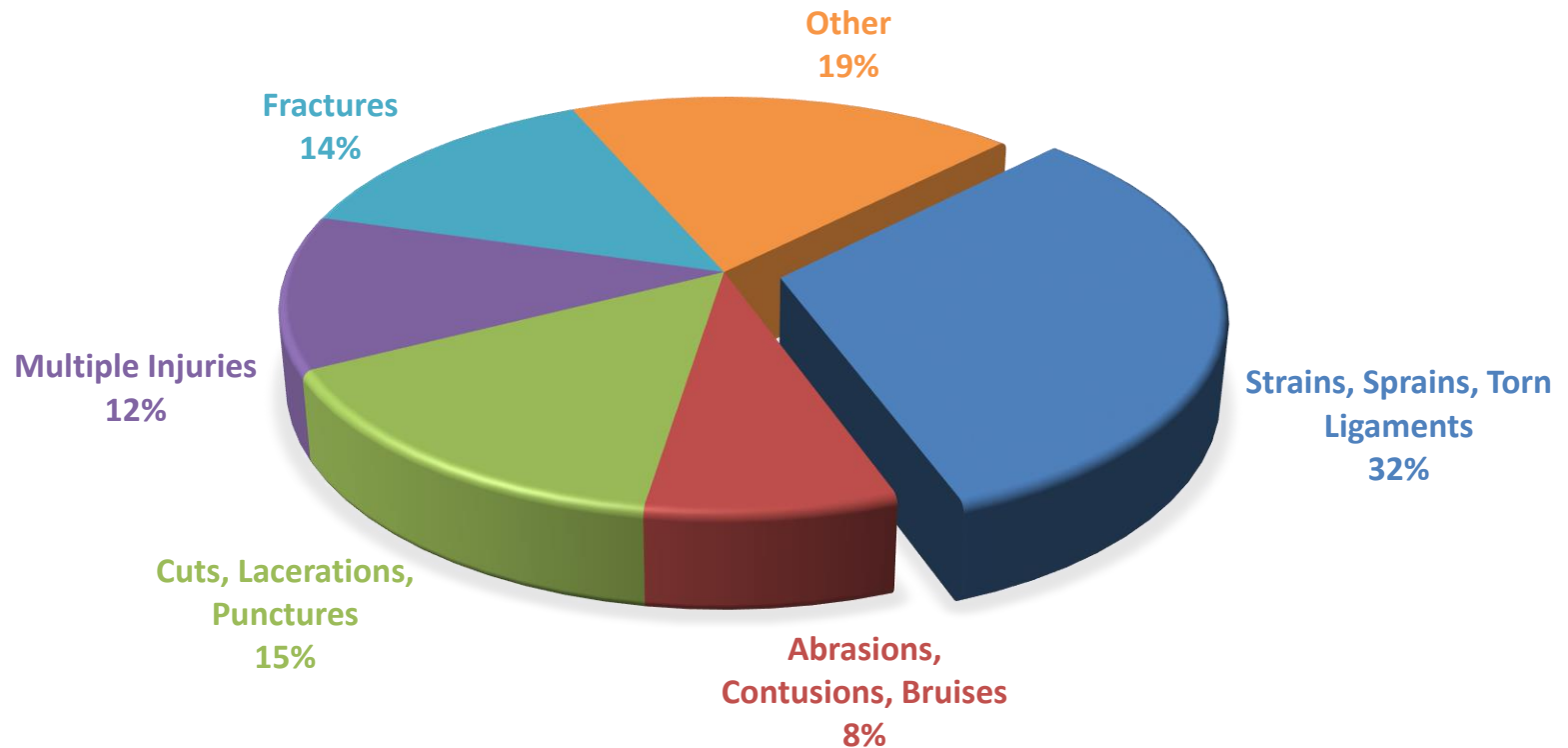


What is a Fire Station ? (Cont.)



- **Garage Facility**
- **Storage Facility**
- **Training & Educational Facility**
- **Social Gathering Place**
- **Public Occupancy**

Station Injuries



Station Designs



- Exterior/Site Considerations
- Historical Design/Refinements
- Garage Area Hazards
- Storage/Special Use Hazards
- Other/Miscellaneous Hazards



Station Design The Processes



Considerations:

- Land
 - 1 ½ Road Miles
 - Response Time
- Designed Build (Builder Oversight)
- Builder at Risk – (Building Architect Works for Your Interests)
- Flow of People
- Garage Doors/ Traffic
- Medical Room
- Security of Property
- Emotional Safety

```

graph TD
    AB((APPARATUS BAY)) --- ENTRY((ENTRY))
    AB --- BD((BOARD DIRCY.))
    AB --- K((KITCHEN))
    AB --- D((DINING))
    AB --- DRE((DAY ROOM EXERCISE RECREATION))
    AB --- T((TRIAGE))
    AB --- S((STORAGE))
    AB --- LQ((LIVING QTR.))
    AB --- SC((STATION CAPT.))
    AB --- LR((LAUNDRY REST ROOMS))
    AB --- FO((FIRE OFF.))
    FO --- COMH((COMH.))
    COMH --- BD
    SC --- LR
    SC --- LQ
  
```

APPARATUS BAY

ENTRY

BOARD DIRCY.

KITCHEN

DINING

DAY ROOM EXERCISE RECREATION

TRIAGE

STORAGE

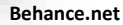
LIVING QTR.

STATION CAPT.

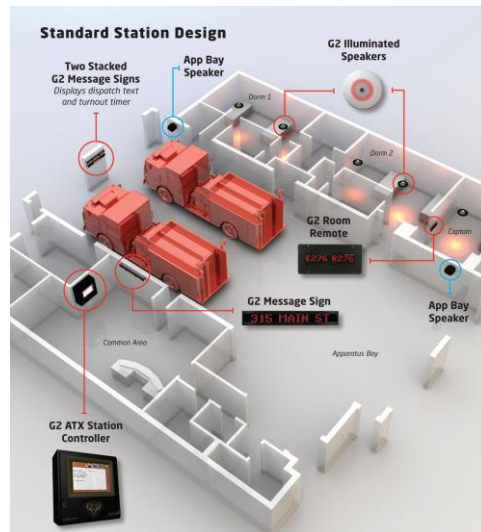
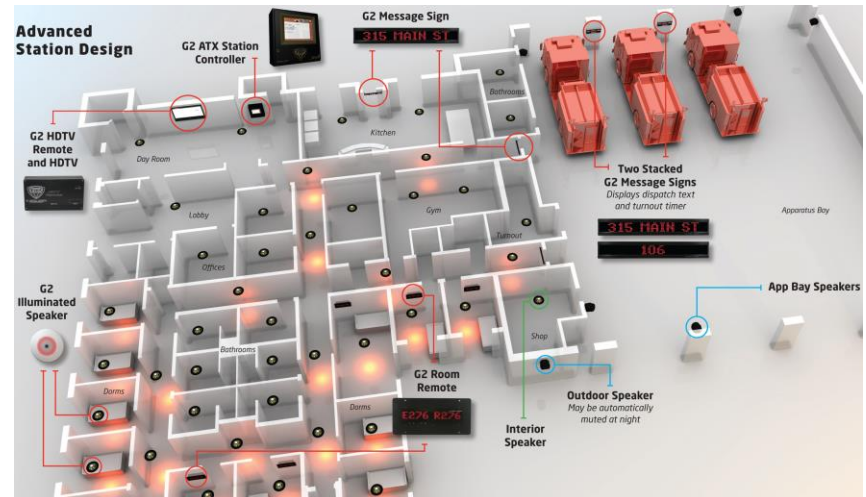
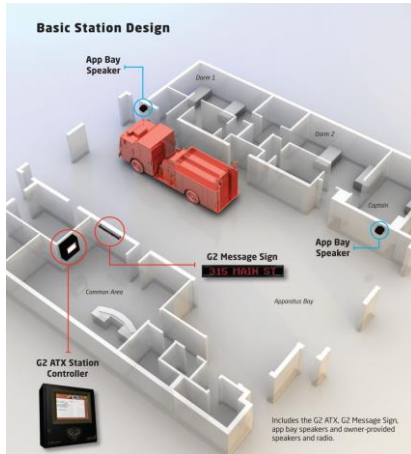
LAUNDRY REST ROOMS

FIRE OFF.

COMH.

Arch3610SpringJonathanMillien

Station Design The Processes (Cont.)



Station Design Safety



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Station Design Safety (Cont.)



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Station Design Safety (Cont.)



Station Design Safety (Cont.)



Station Design Safety (Cont.)



Station Design Safety (Cont.)



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Station Design Safety (Cont.)



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Station Design Safety (Cont.)





Purchasing Law

Risk Management/Safety Programs –Secession III

Objectives



To review Purchasing requirements for governmental subdivisions in Texas.

To review Best Practices for purchasing for other entities in Texas.

To review Cooperative Purchasing Opportunities in Texas.



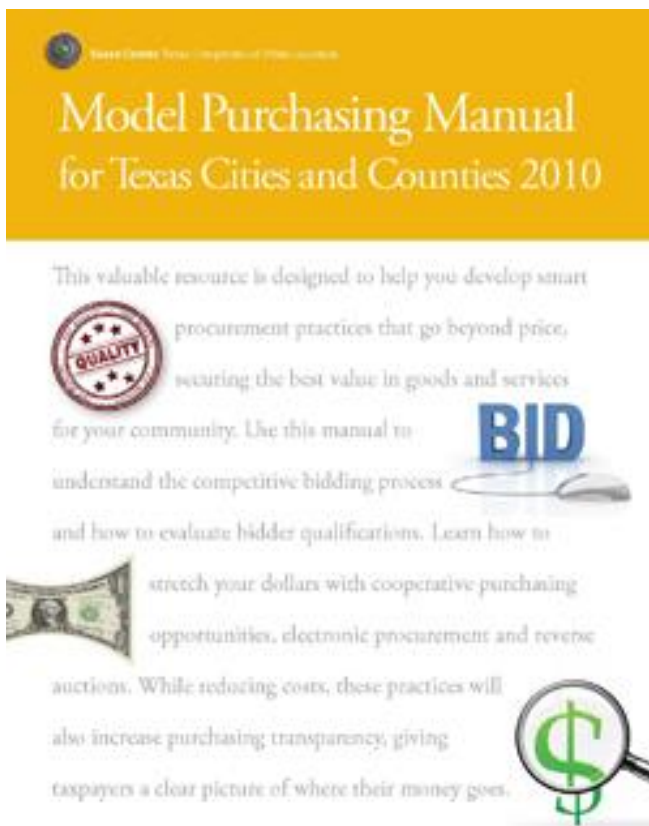
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Texas State Purchasing



- [Current Law](#)
- [Texas Purchasing Rules Simplified](#)
- [TCPA Model Purchasing Manual](#)



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Texas COOP Purchasing



- [Texas Cooperative Purchasing Manual](#)
- [Texas Cooperative Purchasing Program](#)
- [HGAC](#)
- [Buy-Board](#)
- **Others**
 - County Coops
 - COG's
 - Associations
 - Multiple Entity Programs



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Highway Safety

Risk Management/Safety Programs –Session III

Safe Highways Application and Reporting Program



SHRP2

- VFIS - Highway Safety
- TEEX – Safe Practices For Traffic Incident Responders
- **Mandated**
 - SFFMA – certification
 - TCFP

- **Purpose**

The National Highway Traffic Safety Administration (NHTSA) is one of 11 agencies within the Department of Transportation and is responsible for reducing deaths, injuries and economic losses resulting from motor vehicle crashes.



SHRP2 (Cont.)



- **Federal guideline for all traffic control nationwide**
- **It also covers all “workers” on all streets, roadways, or highways**
- **This course addresses what is required to adhere to (Manual on Uniform Traffic Control Devices) TMUTCD standards**



SHRP2 (Cont.)



- The three factors most frequently reported as contributing to emergency service personnel's death were:
 - Lack of visibility of the victim,
 - Distractions, and
 - Blinding caused by emergency vehicles at the incident.
- **TMUTCD vs NFPA**
 - Texas - Responders....should initiate procedures to have the appropriate temporary traffic controls setup.”
 - NFPA - “The first arriving unit shall ensure that traffic is controlled before addressing emergency operations.”



SHRP2 (Cont.)



- **Scope**
 - Responder Safety
 - Incident Notification
 - Incident Blockage
 - Closure of Roadway/Highway by Firefighter
 - Quick Clearance Reduces Secondary Crashes
 - Three types of work durations :
 - Minor (less than 30 minutes)
 - Intermediate (30 minutes - 2 hours)
 - Major (more than 2 hours)
 - Moving Drivable Vehicles off Freeways
 - Cargo Removal
 - Debris Removal
 - Prompt, reliable, interoperable communications.



Conclusion



- Create Awareness
- Improve Safety
- Reduce Your Risk





Hazardous Materials

Risk Management/Safety Programs –Session III

Hazard Materials Federal Regs.



Federal Regulations

- **1910.120**
 - Scope - Emergency response operations for releases of, or substantial threats of releases of, hazardous substances without regard to the location of the hazard.
 - Definitions –
 - Emergency response or responding to emergencies means a response effort by employees from outside the immediate release area or by other designated responders (i.e., mutual aid groups, local fire departments, etc.) to an occurrence which results, or is likely to result, in an uncontrolled release of a hazardous substance. Responses to incidental releases of hazardous substances where the substance can be absorbed, neutralized, or otherwise controlled at the time of release by employees in the immediate release area, or by maintenance personnel are not considered to be emergency responses within the scope of this standard. Responses to releases of hazardous substances where there is no potential safety or health hazard (i.e., fire, explosion, or chemical exposure) are not considered to be emergency responses.



Hazard Materials Federal Regs.

(Cont.)



- Emergency response organizations may use the **local emergency response plan** or the **state emergency response plan** or both, as part of their emergency response plan to avoid duplication. Those items of the emergency response plan that are being properly addressed by the SARA Title III plans may be substituted into their emergency plan or otherwise kept together for the employer and employee's use.
- The senior emergency response official responding to an emergency **shall** become the individual in charge of a site-specific **Incident Command System (ICS)**. All emergency responders and their communications shall be coordinated and controlled through the individual in charge of the ICS assisted by the senior official present for each employer. **OSHA Requirement**
- The individual in charge of the ICS **shall designate a safety officer**, who is knowledgeable in the operations being implemented at the emergency response site, with specific responsibility to identify and evaluate hazards and to provide direction with respect to the safety of operations for the emergency at hand. **OSHA Requirement**



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Starting August 1, OSHA penalties will increase for the first time in more than 25 years. Additionally, OSHA will be able to increase the penalties annually going forward based on inflation rates. Are you ready?

Here is a list of what the revised penalty amounts will be:

Type of Violation	Current Maximum Penalty	New Maximum Penalty
Other than serious	\$7,000	\$12,471
Serious	\$7,000	\$12,471
Willful	\$70,000	\$126,000
Repeat	\$70,000	\$126,000

With the increasing cost of noncompliance, it's more important than ever to have a handle on the most common and costly pitfalls so you can keep your employees productive and your organization in compliance—and that's where the Workplace Safety Library can help.

TrainingToday's Workplace Safety Library is the go-to resource for safety professionals like you who are long on responsibilities and short on time. With courses on electrical safety, fire prevention, OSHA compliance, slips and falls, and more, we'll help you save time and money on your workplace safety training.

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Department of Transportation (DOT)



OSHA 1910.120(q) and EPA 311 apply to employers whose employees are engaged in emergency response to hazardous materials incidents. Employer responsibilities under these regulations fall into four primary areas:

- Development of an emergency response plan
- Development of specific procedures for handling hazardous materials incidents
- Training requirements
- Health and safety requirements (medical monitoring for the use of chemical protective clothing and exposure records)
- **First Responder Awareness Level - No Hour Requirement**
 - An understanding of what hazardous materials are and the associated risks
 - An understanding of potential outcomes when hazardous materials are present
 - The ability to recognize the presence of hazardous materials
 - An understanding of the first responder's role and use of the North American Emergency Response Guidebook
 - The ability to recognize the need for additional resources and the knowledge of the procedures to make the appropriate notifications



Department of Transportation (DOT)

(Cont.)



- **First Responder Operations Level - OSHA minimum requirement = awareness + 8 hours at operations level**
 - Know basic hazard and risk assessment
 - Know how to select and use protective equipment provided to the first responder
 - Understand basic hazardous materials terms.
 - Know how to perform basic control, containment, and/or confinement operations within the capabilities of their resources and protective equipment
 - Know basic decontamination procedures
 - Understand relevant SOP's and termination procedure



Department of Transportation (DOT) (Cont.)



- **Hazardous Materials Technician - OSHA minimum requirement = 24 hours at operations level + technician training**
 - Know how to implement the employer's emergency response plan
 - Know how to identify materials by using field survey instruments
 - Be able to function in an assigned role in the incident command system
 - Know how to select and use specialized personal protective equipment
 - Understand hazard and risk assessment techniques
 - Be able to perform advanced control and containment operations within the resources and equipment available.
 - Understand and implement decontamination procedures



Department of Transportation (DOT)

(Cont.)



- **On Scene Incident Commander - OSHA minimum requirement = 24 hours at operations level + incident commander training**
 - Are able to implement the employer's incident command system
 - Are able to implement the employer's emergency response plan
 - Understand the risks associated with working in chemical protective clothing
 - Know how to implement the local emergency response plan
 - Know of the State emergency response plan and the Federal regional response team
 - Understand the importance of decontamination
- **Safety Officer at Hazardous Materials Incidents and Hazardous Materials Branch Safety Officer**
 - Identify and evaluate hazards, and assist in developing a safe response plan
 - Identify and evaluate unsafe operations, activities, and/or conditions
 - Identify appropriate interventions and coordinate with incident commander



Department of Transportation (DOT) (Cont.)



- **Terrorist Incident Response Training Guidelines:**
 - More Detailed / Recommended Training Objectives

First Responder at Awareness Level			
Audience	Prerequisites	Training	Refresher
Very broad. All who may first respond to hazmat incidents.	None	<ul style="list-style-type: none">• No length required; 4-16 hours is common practice• Traditional classroom format.• Competencies:<ul style="list-style-type: none">• Understanding of hazmat and the role of first responder.• Ability to recognize and identify hazmat.	Very broad. All who may first respond to hazmat incidents.

Department of Transportation (DOT) (Cont.)



- **Terrorist Incident Response Training Guidelines: (Cont.)**
 - More Detailed / Recommended Training Objectives

First Responder at the Operations Level			
Audience	Prerequisites	Training	Refresher
Broad. All who may participate in initial operations at a hazmat incident	First Responder Awareness training.	<ul style="list-style-type: none">• 8-40 hours (minimum 8 required).• Classroom and simulator/field instruction.• Competencies:<ul style="list-style-type: none">• Understanding of hazmat terms, basic hazard and risk assessment, and role of first responder at operational level.• Ability to perform basic control, containment and/or confinement techniques with proper use or personal protective equipment and following standard operating procedure.• Ability to implement basic decontamination procedures.	<ol style="list-style-type: none">1. Competency retesting of all response skills.2. Technical information updates.3. Incident scene decision-making using simulated emergencies.



Department of Transportation (DOT) (Cont.)



- **Terrorist Incident Response Training Guidelines: (Cont.)**
 - More Detailed / Recommended Training Objectives

Hazardous Materials Technician

Audience	Prerequisites	Training	Refresher
Narrow. Prospective hazardous materials team members and others who are designated in response plans as a general resource to perform advanced defensive/offensive operations at all anticipated hazardous materials emergencies.	<ol style="list-style-type: none">1. First Responder Awareness training.2. First Responder Operations training (min. 24 hours required).	<ul style="list-style-type: none">• 40-240 hours.• Classroom and simulator/field instruction, with emphasis on hands-on training.• Competencies:<ul style="list-style-type: none">• Knowledge of role of technician within incident command system and responsibilities within employer's emergency response plan.• Knowledge of hazardous materials terminology, behavior, and ability to perform advanced hazard and risk assessment using field survey instruments and equipment.• Ability to perform advanced control, containment and/or confinement techniques.- Ability to select and use specialized personal protective equipment.• Ability to implement decontamination procedures.• Knowledge of termination procedures.	<ol style="list-style-type: none">1. Competency retesting of all response skills.2. Technical information updates.3. Incident scene decision-making using simulated emergencies.



Department of Transportation (DOT)

(Cont.)



- **Terrorist Incident Response Training Guidelines: (Cont.)**
 - More Detailed / Recommended Training Objectives
 - Incident Commander - OSHA requirement=24 hours Operations training + Incident Commander training

Audience	Prerequisites	Training	Refresher
Moderate in size. Responders whose level of command responsibility may include incident commander at all phases of a hazmat incident, from initial response through stabilization to incident termination.	<ol style="list-style-type: none"> 1. First Responder Awareness training. 2. First Responder Operations training (min. 24 hours required). 	<ul style="list-style-type: none"> - 16-40 hours. - Classroom and simulator/field instruction, with emphasis on incident management and resource coordination. - Competencies: <ul style="list-style-type: none"> - Knowledge of role of incident commander within incident command system and responsibilities within employer's emergency response plan. - Knowledge of State and federal emergency response plans. - Ability to manage and coordinate a hazmat incident response, including supervising hazard and risk assessment, coordinating control, containment and confinement operations, ensuring proper use of personal protective equipment, employing proper notification procedures, and ensuring correct decontamination procedures. - Ability to implement transfer of command and incident termination procedures. 	<ol style="list-style-type: none"> 1. Review of command structure SOP's. 2. Information updates on State and federal response plans. 3. Refresher practice incident scene management, coordination and decision-making using simulated emergencies.



Department of Transportation (DOT) (Cont.)



- **Terrorist Incident Response Training Guidelines: (Cont.)**
 - More Detailed / Recommended Training Objectives
 - Safety Officer at Hazardous Materials Incidents (OSHA) and Hazardous Materials Branch Safety Officer (NFPA)

Audience	Prerequisites	Training	Refresher
<p>Small in number.</p> <p>Safety Officer (OSHA) Responders at the inc. comm. level with potential for assignment as incident safety officer.</p> <p>Branch Safety Officer (NFPA) Responders at the technician level with potential for assignment at the haz mat branch safety officer level.</p>	<p>Prior training and demonstrated competency at the awareness, operational, and inc. comm. levels.</p> <p>Prior training and demonstrated competency at the awareness, operational, and technician levels.</p>	<p>-No specific length of training is recommended or commonly in use. Length of training should be sufficient to allow students to achieve competency.</p> <p>-Classroom, lab, and field exercise formats recommended, with an emphasis on real time field simulations requiring practice in developing safe response plans and identifying safety problems during the implementation of the response plan.</p> <p>-Competencies:</p> <ul style="list-style-type: none"> - Analyzing the incident. - Assisting in developing a safe response plan. - Assisting in implementing the response plan safely. - Evaluating the response for safety problems 	<p>1. Technical information updates.</p> <p>2. Using simulated emergencies, refreshing of ability to analyze incident and develop safe response plans.</p> <p>3. Using simulated emergencies, refreshing of ability to evaluate the response and identify safety problems and needed interventions.</p>



Conclusion



Training should provide a working knowledge of the benefits and limitations of various protection strategies, including evacuation, in-place protection, and a combination thereof. Participants should gain an understanding of the need for protective action planning and important planning considerations. They should develop the ability to **implement a decision-making process for any given hazardous materials emergency or terrorist incident situation and respective protective action options**, and learn strategies and techniques for communicating the desired protection action to the general public to elicit the best possible response.





Response to Violent Incidents

Risk Management/Safety Programs –Session III

Response to Violent Incidents



Achieve Readiness Levels

- Assign this responsibility to one or more department members who are:
 - Knowledgeable
 - Communicates effectively with other disciplines
- Consider Partnering
- Demonstrate commitment, set timelines
- Assess your Readiness
- Improve readiness
- Keep all materials to checklist





TIFMAS / AHIMTs

Risk Management/Safety Programs –Session III

TIFMAS / AHIMTS



- Texas Intrastate Fire Mutual Aid System (TIFMAS) – Annex F – tifmas.org
 - Maintained by Texas A&M Forest Service.
 - Includes grants, training, qualifications and mobilization systems to make statewide use of local resources.

TIFMAS BRANCH RESOURCE COORDINATORS

STATE COORDINATOR
Chief Joe Florentino
Little Elm FD
jflorentino@littleelm.org
214-975-0425

PANHANDLE
Craig Gannon
Lubbock FD
CGannon@mail.ci.lubbock.tx.us
806-548-1246

WEST
Kevin Shelton
Midland FD
kshelton@midlandtx.gov
432-559-9441

NORTHWEST
Chief Del Albright
Brownwood FD
dalbright@ci.brownwood.tx.us
325-646-6743

NORTH
Chief Eric Thompson
Red Oak FD
ethompson@redoaktx.org
469-218-7714

EAST
Chief Keith Kiplinger
Nacogdoches FD
kiplingerk@ci.nacogdoches.tx.us
936-559-2541

SOUTH CENTRAL
Chief Patrick Shipp
Webster FD
pshipp@websterfd.com
281-316-3745

SOUTH
Chief Kevin Clarkson
Brownsville FD
kclarkson@brownsvillefd.com
361-534-1111

CENTRAL
Chief JJ Wittig
Oak Hill FD (TCESD#3)
jwittig@oakhillfire.org
512-288-5534 ext. 114

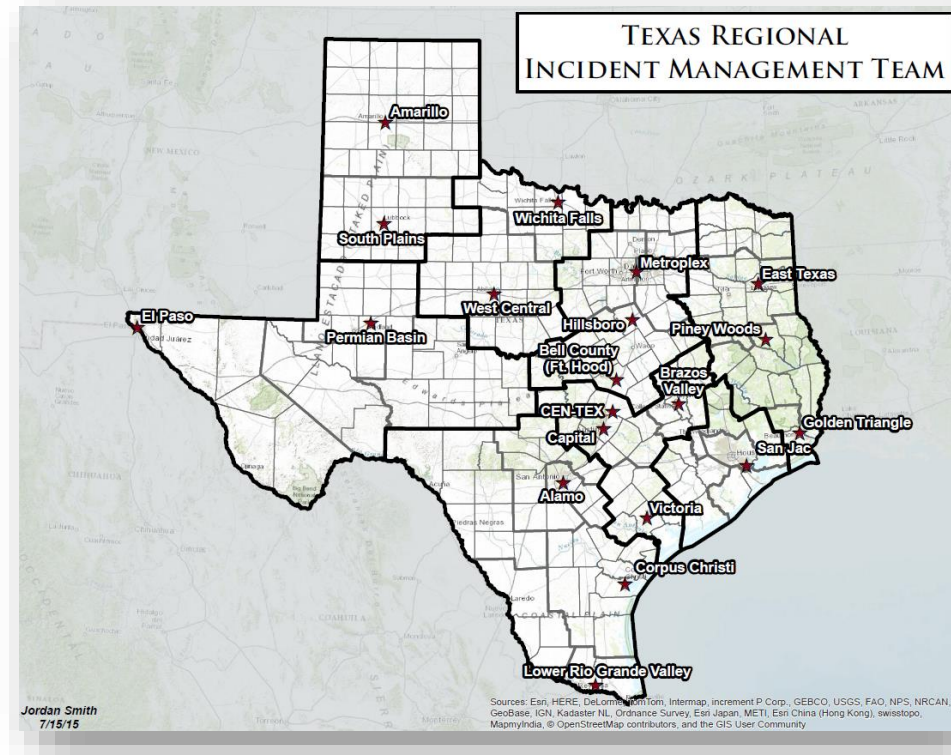
TIFMAS
TEXAS INTRASTATE
FIRE MUTUAL AID
SYSTEM

REVISED: JUNE 15th 2016

AHIMTs



- **Texas All Hazard Incident Management Team (AHIMT) – Master Plan**
 - To provide qualified Type 3 All-Hazards Incident Management Teams (AHIMT) for the State of Texas and its political subdivisions capable of **supporting and assisting** in the management of **natural and manmade emergencies**, disasters, and acts of terrorism.





Resources

Risk Management/Safety Programs –Session III

Resources (VFIS HR Help)



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Site News

Checklists

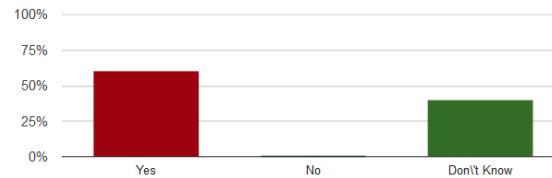
Checklists are available to help you through certain situations that you might encounter.

- Child Safety
- Constitutional Rights and Protections
- Crisis Management
- Cyber Risk
- Discrimination
- Employee Benefits
- Employment Practices Litigation
- Harassment
- Health, Wellness and Safety
- Human Resource Management
- Law of the Workplace
- Leadership
- Miscellaneous
- Productivity
- Recruiting, Hiring, & Termination
- Student and Third Party Litigation
- Substance Abuse
- Title IX
- Wage and Hour
- Workers' Compensation
- Workplace Best Practices
- Workplace Crime
- Workplace Ethics
- Workplace Violence

Survey Results

Has Your Organization Experienced Social Engineering?

Survey Results



From Social Engineering: How Most Hackers Get Access To Workplace Data

[Best Practice Helpline](#)
click here

Model Handbook

Welcome to The Leadership2 Model Employee Handbook. This model handbook consists of model policies as well as educational material on formulating policies for the workplace. The explanations for policies and the policies are available at no cost. Many of these policies are also available in Spanish in the Knowledge Vault under Model Policies.

Please seek the advice of an attorney before implementing any of the model policies provided.

The Leadership2 Model Employee Handbook

[Download Handbook \(view -PDF\)](#) [\(edit - Word\)](#)

Links

Links provide easy access to important third party sites. By selecting a link you will leave this site.

Government

- Federal
- State

Laws

- Federal
- State

References

- Article References

Resources (VFIS University)



Always Online on Your Own Time.

Home Course Listing My Registered Course My Profile

Logout

VIEW COURSES

Welcome to VFIS site. You are successfully logged-in
Once registered in VFISU, you will still be required to log into your dashboard separately. Please click the "Access Your Dashboard" button to log in. Once you are logged into your dashboard you can complete your courses.

ACCESS YOUR DASHBOARD

Distance Learning

In our continuous efforts to improve safety and operations in the fire and EMS services through education, training, risk management and insurance programs.

Check out these valuable VFIS programs on our distance-learning site, targetsolutions.com:

VFIS-Texas

Home Help

Schedule

NAME	DUE DATE
VFIS - 106: Sexual Harassment Prevention Assignment	

Bulletin Board

Important change to VFIS University

In an effort to better serve VFIS University users, we have placed all VFIS and TargetSolutions courses in the "Self Assign" section. This is designed to allow users immediate access to free courses, as well as those they have purchased.

We ask that you only access free VFIS courses (if you are a client) or courses you have already purchased, via VFISu.com.

Please note that any courses accessed that are not purchased in advance, will be billed on a monthly basis.

For your convenience, the following is a listing of the current VFIS courses free for Clients only:

Sexual Harassment Prevention

Course Menu Session Activity Book Activity

Quit

Menu

1. SEXUAL HARASSMENT PRE...
2. This session will specific...
3. Facts about sexual harass...
4. Sexual harassment is a for...
5. Title VII
6. Sexual harassment defined
7. Unwelcome defined:
8. Further illustrations include:
9. Key issues
10. A process to report a sex...
11. All employees/members A...
12. SEXUAL HARASSMENT OUT...
13. SEXUAL HARASSMENT HO...
14. Examples of hostile work...
15. Training efforts are manda...
16. Keys to limiting potential...
17. Proper conduct
18. 5 Pillars of Successful Em...
19. BOTTOM LINE
20. Hot off the presses from a...
21. Case #
22. Case #
23. Case #
24. Case #
25. Workplace Harassment
26. Workplace Harassment
27. Workplace Harassment
28. Workplace Harassment
29. Workplace Harassment
30. Workplace Harassment
31. Workplace Harassment
32. Workplace Harassment
33. Workplace Harassment
34. Workplace Harassment
35. Workplace Harassment

Sexual Harassment Prevention (18/01/28/24)

Workplace Harassment – Reason for Concern

TRUE

Sexual Harassment Awareness and Prevention

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[All](#) [Subject](#) [Award](#) [CD](#) [Checklist](#) [DVD](#) [Handout](#) [Online Video](#) [Poster](#) [PowerPoint](#) [Sample Pgm](#) [Toolbox Talks](#)

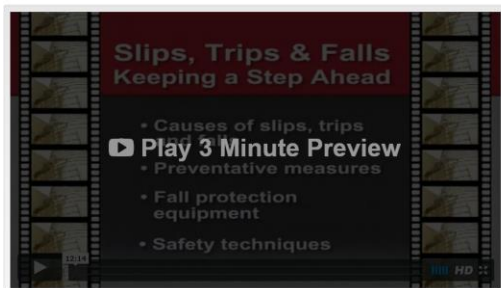
[Summit Streaming video](#) [Slips Trips & Falls Instructor \(Streaming\) English](#)

Course Documents

- [Facilitator's Guide](#) [Download](#)
- [PowerPoint](#) [Download](#)
- [Quiz](#) [Download](#)

[Click Here To View Full Video](#)

Course Preview



Course Description

Slips, trips, and falls in the workplace are 100% preventable, and yet taken together they are the second leading cause of work related deaths. Included in this superb program from Summit is vital information about fall protection equipment, as well as: Runtime: 12 min

Cultural Assessment Survey

Company Name: _____ Date: _____
Please score your company on each of the cultural elements from 1 (Poor) to 5 (Ideal). Match the description with what you feel the culture is in your company. It is important you answer honestly.

Cultural Element	1 Poor	2 Fair	3 Average	4 Excellent	5 Ideal
Interest	No interest in employee safety	Some interest in employee safety	Interest in employee safety	Very interested in employee safety	Very interested in employee safety
Understanding	Employee safety concerns are not understood	Employee safety concerns are understood	Employee safety concerns are understood	Employee safety concerns are understood	Employee safety concerns are understood
Perception	No perception about safety in the company	Some perception about safety in the company	Perception about safety in the company	Perception about safety in the company	Perception about safety in the company
Accountability	No one is responsible for employee safety	Someone is responsible for employee safety	Someone is responsible for employee safety	Someone is responsible for employee safety	Someone is responsible for employee safety
Recognition	No thanks or rewards for employees who work safely	Thanks or rewards for employees who work safely	Thanks or rewards for employees who work safely	Thanks or rewards for employees who work safely	Thanks or rewards for employees who work safely
Resources	Employees are not provided with the resources needed to work safely	Employees are provided with the resources needed to work safely	Employees are provided with the resources needed to work safely	Employees are provided with the resources needed to work safely	Employees are provided with the resources needed to work safely
Communication	Management and employees do not talk about safety	Management and employees talk about safety	Management and employees talk about safety	Management and employees talk about safety	Management and employees talk about safety
Teamwork	Employees are not encouraged to report unsafe acts, conditions, or behaviors	Employees are encouraged to report unsafe acts, conditions, or behaviors	Employees are encouraged to report unsafe acts, conditions, or behaviors	Employees are encouraged to report unsafe acts, conditions, or behaviors	Employees are encouraged to report unsafe acts, conditions, or behaviors
Production	Employee safety is not a factor in any company decisions	Employee safety is a factor in any company decisions	Employee safety is a factor in any company decisions	Employee safety is a factor in any company decisions	Employee safety is a factor in any company decisions
Planning	Employee safety is not a part of the planning process	Employee safety is a part of the planning process	Employee safety is a part of the planning process	Employee safety is a part of the planning process	Employee safety is a part of the planning process

Location/Department: _____
Optional Data: _____ Employee _____ Salaried _____ 1st Shift _____
(Check one) _____ Hourly _____ 2nd Shift _____
_____ Manager and up _____ 3rd Shift _____

Version: A - Guide to Texas Safety Culture

www.texasmutual.com

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FIRE DEPARTMENT PROGRAMS: TIFMAS GRANT ASSISTANCE PROGRAM

The Texas Intrastate Fire Mutual Aid System (TIFMAS) Grant Assistance Program provides reimbursement grants to career fire departments and combination fire departments not eligible for grant assistance under the [Rural Volunteer Fire Department Assistance Program](#). The program provides \$1 million in grant assistance annually, with \$800,000 dedicated to TIFMAS vehicles and \$200,000 dedicated to all other grant categories.

Special Announcement: 2016 TIFMAS Grant Funds Exhausted
Funding Summary: TIFMAS Meeting - October 20, 2015
Special Announcement: TIFMAS Program Changes FY16
[TIFMAS Historical Funding Information](#)

Texas Interagency Coordination Center

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[Other Links](#)

FIRE DEPARTMENT PROGRAMS: VOLUNTEER FIRE DEPARTMENT PROGRAMS

The primary goal of the VFD Assistance Programs is to enhance the emergency response capabilities of volunteer and combination fire departments with 20 or fewer paid members.

Texas A&M Forest Service is committed to helping fire departments obtain critically needed equipment, protective gear, emergency vehicles, training and other resources to protect the public and emergency personnel from fire and related hazards.

We encourage VFDs to consider each program and apply for those which you are eligible.

+ [Eligibility](#)

+ [Apply for a TIFMAS Apparatus Grant](#)

+ [Apply for a TIFMAS Training Tuition Grant](#)

+ [Additional Guidelines](#)

+ [DoD Firefighter Property Program](#)

+ [Federal Excess Personal Property](#)

+ [Fire Quench](#)

+ [Firesafe Program](#)

+ [Helping Hands Program](#)

+ [Rural VFD Assistance Program \(HB 2604\)](#)

+ [Rural VFD Insurance Program \(HB 3667\)](#)

+ [VFD Motor Vehicle Self Insurance Program](#)



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Hours Worked Out per Week

Select Poll

Hours Worked Out per Week

Between three and six

530 31.5%

Between six and ten

374 22.3%

Up to three

324 19.3%

Zero

236 14%

More than ten

216 12.9%



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Texas Fire Chiefs Association Best Practices Recognition Program



12 Areas of Concentration

Administration and Organization - Emergency Medical Service
Training - Special Operations - Records and Information Management
Fire Operations - Fire Prevention, Risk Reduction, Community Outreach
Response Analysis - Communications - Safety and Health
Resources Management - Professional Standards and Conduct

Recognition Program Annual Fees

Recognition program annual fees depend on the size of department as listed below:

Fire Fighters	Fee Amount
1-10	\$ 350.00
11-25	\$ 500.00
26-50	\$1,200.00
51-100	\$1,600.00
101-200	\$2,000.00
201 or more	\$2,400.00

For more information view this website or contact
Betty Wilkes, Executive Director, Texas Fire Chiefs Association
P.O. Box 66700, Austin, Texas 78766 or 512.294.7423 or bwilkes@texasfirechiefs.org



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Resources (IAFC)



IAFC

INTERNATIONAL ASSOCIATION OF FIRE CHIEFS

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Programs & Initiatives

The IAFC leads a variety of programs that directly impact our members' roles as leaders. We provide tools and resources that fortify response, support education and prevention, enhance training, and strengthen efforts to improve responder health and safety. The IAFC actively works with members, stakeholders and community partners to deliver high-quality programs.

Use the links on the left for program details or go to summary information of [all IAFC programs](#).



Downloadable Tools and Other Resources

[Nomination and Eligibility Guidelines - Safety, Health and Survival Section Awards](#) (pdf)

[A Fire Department's Guide to Implementing NFPA 1582](#)

[Taking Action Against Cancer in the Fire Service](#) (pdf)

[Crew Resource Management](#)

[Medical Evaluations Task Force Reports and Resources](#)

[Rules of Engagement for Structural Firefighting](#) (pdf)

[Rules of Engagement for Structural Firefighting - FINAL](#) (pdf)

[Review and Assessment of the National League of Cities' Assessing State Firefighter Cancer Presumption Laws and Current Firefighter Cancer Research](#) (pdf)

Panel convened by the IAFC's Safety, Health and Survival Section

[Fire Service Joint Labor Management Wellness-Fitness Task Force](#)
IAFC/IAFF wellness fitness programs

[Fire Service Joint Labor-Management Wellness-Fitness Initiative](#): 3rd edition (pdf, 2.7 mb)

[Model Procedures for Response of Emergency Vehicles During Hurricanes and Tropical Storms](#) (pdf)

IAFC's SHS Section recommendation report: [Improvement to NIOSH's Fire Fighter Fatality Investigation and Prevention Program \(FFFIPP\) with respect to LODD investigations](#) (pdf)

[Sleep Deprivation](#)

[Vehicle Safety](#)

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Resources (NFPA)



**NATIONAL FIRE PROTECTION ASSOCIATION**
The leading information and knowledge resource on fire, electrical and related hazards

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CODES & STANDARDS

NFPA 1500	Standard on Fire Department Occupational Safety and Health Program
NFPA 1521	Standard for Fire Department Safety Officer Professional Qualifications
NFPA 1561	Standard on Emergency Services Incident Management System and Command Safety
NFPA 1581	Standard on Fire Department Infection Control Program
NFPA 1582	Standard on Comprehensive Occupational Medical Program for Fire Departments
NFPA 1583	Standard on Health-Related Fitness Programs for Fire Department Members
NFPA 1584	Standard on the Rehabilitation Process for Members During Emergency Operations and Training Exercises



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The moment is coming
when you will be called upon....
Are You Ready?
Be Safe. Be Ready!

BUILDING BETTER FIREFIGHTERS



START HERE

PODCAST

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PRODUCT REVIEWS

ARTICLES

HEALTH & FITNESS

FF MINDSET


TRUCK CO. OPS »



The Last Clip {With Pictures and Video}

Posted On 18 Apr 2016, By Editor


0



Adapting Our Approach to Violent Events (Active Shooters) as Firefighters/EMS

Posted On 05 Dec 2015, By Michael R. Rehfeld


bool(true) 0



5 Steps to VEIS - Part 2

Posted On 14 Aug 2015, By Jim Moss

2




5 Steps to VEIS - Part 1

Posted On 11 Aug 2015, By Jim Moss

bool(true) 0


HEALTH & FITNESS »



3 Workout Tips for the Volunteer Firefighter

Posted On 29 Jul 2016, By Firefighter Functional Fitness


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Firefighter Functional Fitness - 7 Tips for Planning Weekly Workouts

Posted On 15 Jul 2016, By Firefighter Functional Fitness


0



The 3 Cornerstones of Firefighter Fitness Success

Posted On 01 Jul 2016, By Firefighter Functional Fitness

0



8 Must-Do Exercises for Serious Firefighter Functional Fitness

Posted On 17 Jun 2016, By Firefighter Functional Fitness

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4

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Development of Standards

Risk Management/Safety Programs –
Session III

How to Develop a SOP/SOG



- A Standard Operating Procedure (SOP) is a document consisting of step-by-step information on how to execute a task. An existing SOP may need to just be modified and updated.
- Configuring Your Document
 - No formal template - make it simple
 - Make documents consistent – easier to read and to comprehend
 - Consider your audience
 - Consider your knowledge
 - Decide between a short or long-form SOP
- Keep your SOP purpose in mind to:
 - Ensure compliance standards are met
 - Maximize production requirements
 - Ensure the procedure has no adverse impact on environment
 - Ensure safety
 - Ensure everything goes according to schedule
 - Prevent failures in manufacturing
 - Be used as training document

Writing Your SOP/SOG



- Cover the necessary material

- Title page

1. the title of the procedure,
2. an SOP identification number,
3. date of issue or revision,
4. the name of the agency/division/branch the SOP applies to, and
5. the signatures of those who prepared and approved of the SOP.

- Table of Contents (Consider Length) Quality Assurance/Quality Control - like performance evaluation samples

- Reference - cite significant references

Table of Contents

Volunteer Fire Department Standard Operating Policies and Guidelines

Enacted _____

DISCLAIMER

The _____ enacted the following Standard Operating Policies (SOP's) and Guidelines (SOG's). The department, its members or other contributors cannot guarantee that adherence to these guidelines by any other fire department or emergency service organization will result in compliance with any laws, regulations or standards.

The _____ cannot guarantee that adherence to these SOP's/SOG's alone will result in a reduction of occupational injuries, illness or exposures. The guidelines can however, provide part of the framework for an emergency service occupational safety and health program which, when developed comprehensively by and for an individual fire department or emergency service organization, can be designed to achieve this goal.

PREFACE

The following Standard Operating Policies and Guidelines were developed to guide members of the _____ Volunteer Fire Department in the performance of their duties and to be utilized as the official reference source of written guidelines pertaining to departmental operations of an organizational, routine or emergency nature. The SOG's attempt to anticipate problems and then recommends courses of action. They are not designed to replace sound judgment based on facts and experiences. They are based on NFPA standards and on appropriate federal, state and local regulations.

The SOG's are not part of the department Constitution and By-laws, but may be referred to in them. This is important from a number of reasons. First, the SOG's remain guidelines rather than rigid policies. Second, it allows the SOG's to be recognized as the basis of general rules of conduct expected from all members.

All department members are required to sign a statement documenting they have received a copy of the Standard Operating Policies and Guidelines and have read and understand them.

SAFETY POLICY

The Safety Policy of the department is to provide and operate under the highest possible level all members. The prevention of accidents, injury exposures and occupational illnesses of the department and shall be primary considerations at all times. The concern for safety applies to all members of the department and any other persons who may be involved in functions.

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PURPOSE

Presented on the following pages are the Standard Operating Policies and Guidelines of the _____. They are to be used as a reference pertaining to department procedures and regulations and to establish behavioral guidelines. They should promote the effective and efficient operation of the fire department. They are intended to assist members accomplish the mission of the department.

The purpose of the Department shall be the saving of lives and the protection of property endangered by fires and other disasters, and to promote the teaching and practice of fire prevention and protection.

It must be stressed that under all circumstances, common sense must prevail. Emergency response situations are so varied specific rules and regulations cannot always be followed in the strictest sense and may need to be altered according to the incident. The guidelines should be used as a tool to inform members of the direction their decisions and actions should follow.

The members of the _____ are a diverse group joined together in a common cause, providing a valued and outstanding service to the community. Keep in mind, every member's personal conduct and behavior reflects on the department as a whole. It takes only one thoughtless, careless or selfish act to destroy the excellent reputation established through many years of dedication and hard work. Each of us is ultimately responsible for our decisions.



Writing Your SOP/SOG (cont.)



- **Procedure itself**

- Scope and Applicability (Purpose)
- Methodology and Procedures (Meat)
- Terminology - Identify acronyms, abbreviations, and all phrases that aren't in common parlance
- Health and Safety Warnings
- Equipment and Supplies

- Cautions and Interferences
- Make your writing concise and easy to read
- Get personnel's feedback which the policy/guideline effects
- Break up large chunks of text with diagrams and flowcharts
- Control document notation (ID Numbers)



Writing Your SOP/SOG (cont.)



- Ensuring Success and Accuracy
 - Test the Procedure
 - Personnel Review
 - Implementation

John Doe Fire Department		
Title:	New Member Expectations	SOP 1.02
Version:	#1	
Enactment Date:	Fire Chief Signature:	

The citizens of _____ expect and deserve the best possible service from the fire department. The community expects members of its fire department to be neat, courteous, honest, and of good conduct at all times. You too are expected to conduct yourself according to these guidelines as long as you remain a member of the department. The actions of one member often reflect upon the entire department. Immediately upon starting your membership with the department you will notice the fellowship that is traditional in the fire service. The pride and partnership of members doing a great job under dangerous conditions will be sensed immediately. You can share and become a part of this exciting fellowship in a relatively short time provided that you demonstrate a willingness to cooperate and to learn. Don't be afraid to ask questions...your desire to learn will show others your desire to be a part of our team.

Firefighting companies are considered teams whose effectiveness depends on a high degree of teamwork and cooperation on the part of each member. As a member of this team, you can be most useful by quickly and competently performing the duties assigned. Your job as a member of this department is to constantly provide the maximum protection possible for the lives and property of the people within our community. Firefighters must perform various duties both at emergency incidents and at the fire station. Some tasks can be readily performed by the new firefighter, while others must be done by more experienced personnel. You should not become discouraged at the prospect of performing the many small and seemingly unimportant jobs that fall to the new firefighter. You should perform your assigned tasks willingly and well, keeping in mind the fact that you are constantly preparing yourself for more advance duties. These will be assigned to you as you demonstrate your capability to perform. The new firefighter must also quickly become familiar with the location of firefighting equipment and appliances carried on the various fire apparatus. Although the ability to use this equipment may need further developing, valuable time will be saved at emergencies if it is known where needed equipment is located on the apparatus.

You will be required to demonstrate your knowledge of equipment and its location. Firefighters obviously cannot wait until fires or other emergencies occur to secure this necessary practical knowledge or the experience that they so vitally need. You can and will learn at actual emergencies, but your success as a firefighter also depends upon how quickly and how well you assimilate the experiences of other firefighters through study and training. The people of our community have confidence in their fire department. They are rightfully proud of it, because it provides efficient public safety services for its citizens, their homes, and their business establishments. This efficiency is the result of constant training and study by all department members in such diverse areas as fire prevention and protection, firefighting procedures, rescue, emergency medicine, and the associated services that are necessary to successfully protect people and property and to maintain competent department operation.

As a firefighter, your honesty and trustworthiness must be beyond question because you will frequently enter homes and businesses under emergency conditions, with or without knowledge of the owner. It is imperative that people of this county have complete faith in the integrity of fire department personnel. It is the duty of every member of the fire department to take special precautions with valuables. You are expected to devote yourself to the task of becoming a good firefighter. The knowledge and training you must secure in order to pass each training phase is freely supplied to you, but you must make yourself available to it and make additional efforts as necessary to be sure that you will succeed in your attempts to reach that expected level of





Personal Health and Wellness

Risk Management/Safety Programs

Today's Focus, YOU



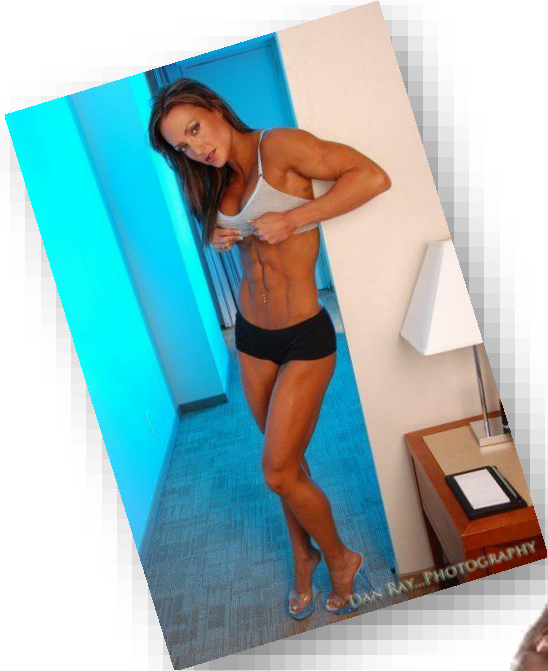
- I will not be telling you to do anything, you have to want it, and you can...
- This is not a professional health class, just some simple ideas to help you improve your life style in small steps
- The number one rule, don't over do it and seek a doctor's input if you have health concerns.
- Simple exercises and Stretching
- Nutrition



Except It!



Is this realistic?



Problems (Diet Plans)



Vegetarian Diet
Jenny Craig

MIND Diet

Nutrisystem®

DASH Diet
Volumetrics Diet



Mediterranean Diet
Ornish Diet

Weight Watchers Diet



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Problems (Meal Supplements)



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Problem (Exercise Programs)



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So



- **Where do I need to go to exercise?**
- **What nutritional program do I need to adapt too?**
- **What supplements are best for me?**
- **What programs are the best for me overall?**



The answer is still simple, YOU!



Meaning:

- Your Life
- Your need
- Your time
- Your Commitment
- Your Family
- Your Job
- Your Fun Time
- Your, Your, Your....





Your Schedule



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Schedule



- **First and foremost:**
 - How long
- **Morning – Lunch – Evening**
 - Time driven
 - Feel Your Best
 - Schedule
 - Becoming an early bird



What can I do to live healthy



- **First and Most important:**

- You have to want it
- Are you treating the symptoms

- **Small Steps**

- First Give up something you know is bad, soda, bread, etc....
- Exercise – stretching, walking, weight, lifting, push-ups, working in the yard, start a garden, something
- Drink water
- If you need it get a partner
- Do it different – stand instead of sitting
- Pick up a sport





Foods

Published on Apr 19, 2017

Within hours of eating an unhealthy meal, we can get a spike in inflammation, crippling our artery function, thickening our blood, and causing a fight-or-flight nerve response. But there are foods we can eat at every meal to counter this reaction

What can I do to live healthy (Cont.)



Artificial sweeteners are man-made substitutes for table [sugar](#) in food and beverages. Popular artificial sweeteners include: [acesulfame K](#) (Sweet One®), [aspartame](#) (Equal, NutraSweet®), [cyclamate](#) (Sugar Twin®), [erythritol](#) (Zsweet®), [saccharin](#) (Sweet'N Low®), [stevia](#) (Truvia®, Pure Via®), [sucralose](#) (Splenda®), [xylitol](#) (XyloSweet®) and [sorbitol](#).

Sweeteners:

- Sweet One® - has been associated with various [cancers](#) in studies.
- Equal, NutraSweet® - Around 92% of independent studies Adverse health effects reported include: pre-term births, fibromyalgia, hypertension, brain disorders, blood platelet disorders, migraine headaches and
- Truvia®, Pure Via®, - The resulting steviol glycosides in the consumer product are converted into steviol in the gut, which may be toxic and cause mutagenic [DNA damage](#) in great enough quantities. .



What can I do to live healthy (Cont.)



Artificial sweeteners are man-made substitutes for table [sugar](#) in food and beverages. Popular artificial sweeteners include: [acesulfame K](#) (Sweet One®), [aspartame](#) (Equal, NutraSweet®), [cyclamate](#) (Sugar Twin®), [erythritol](#) (Zsweet®), [saccharin](#) (Sweet'N Low®), [stevia](#) (Truvia®, Pure Via®), [sucralose](#) (Splenda®), [xylitol](#) (XyloSweet®) and [sorbitol](#).

Sweeteners (cont.):

Zsweet® / XyloSweet® - are used in consumer products like gum, sugar-free candies and toothpaste. Studies show these two sweeteners may draw fluid into the colon in digestion and have a [laxative](#) effect.



Studies show a direct relationship between consumption of foods containing artificial sweeteners and [weight gain](#). The reasons for this are: 1) “reverse causation”, i.e., the more weight people gain, the more they consume artificial sweeteners to try to offset the weight gain, 2) overcompensation for expected calorie reduction (e.g., having a diet cola with a double cheeseburger) and 3) the appetite-promoting effect of sweet substances on the tongue versus the appetite suppression effect of actual calories in the gut.



What can I do to live healthy (Cont.)



... white bread may be associated with increased cancer risk, especially prostate cancer. There are few antioxidants in white bread. Eating white bread also seems to have a negative effect on cognitive function and it appears to increase our insulin level.

On the other hand, unrefined, whole grains have been associated with lower risk of diabetes, heart disease, and cancer. Rye intake may be associated with lower breast and prostate cancer risk.



What can I do to live healthy (Cont.)



Food for your health

- **Green Tea** - drink 4-5 cups a day speed up your metabolism and even burn more calories in your sleep
- **Roasted Brussels Sprouts** - They're excellent weight loss foods
- **Chicken** - supply of protein content, the supply of essential vitamins and minerals, benefits in losing weight, cholesterol control, blood pressure control, and a reduced risk of cancer



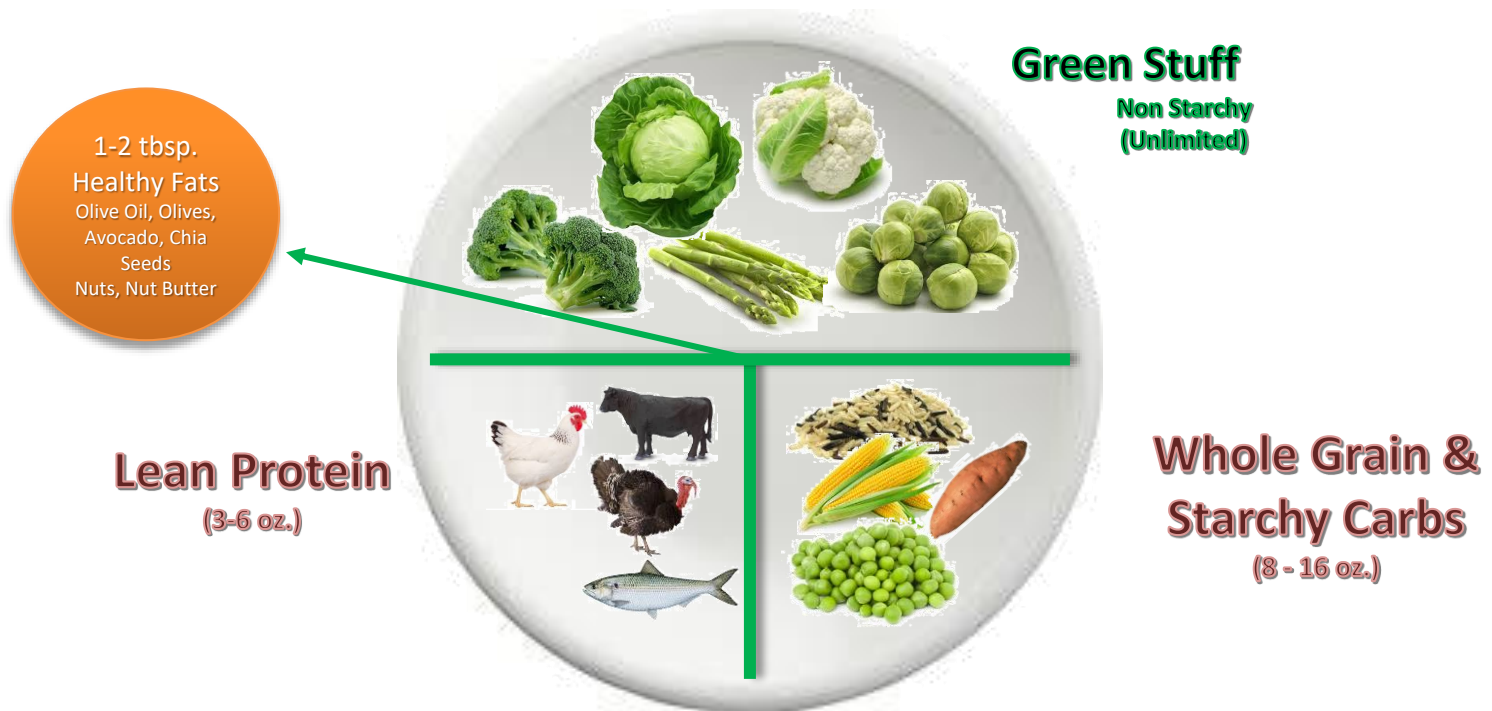
What can I do to live healthy (Cont.)



- Know your (BMR) Basal Metabolic Rate - is an estimate of how many **calories** your body burns at rest. It represents the minimum amount of energy needed to keep your body functioning, including breathing and keeping your heart beating.
- Eat to Your BMR
<https://www.bodybuilding.com>
- Become a Burner not a Dieter
- Tape Measurer vs Weight Watcher
- A hand full
- Consistency not Perfection



What can I do to live healthy (Cont.)





Exercise

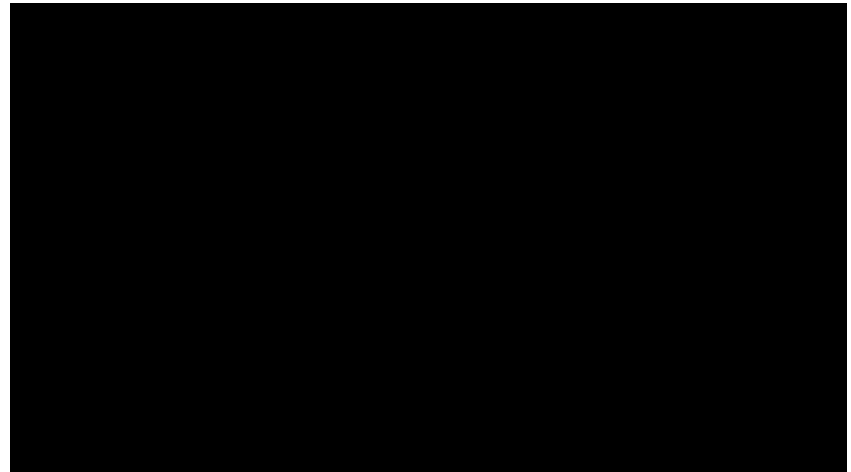
physical activity that is done in order to become stronger and healthier. : a particular movement or series of movements done to become stronger and healthier. : something that is done or practiced to develop a particular skill



Fitness – 5 Fundamentals



- A warmup.
- A cardiovascular (aerobic) workout.
- Resistance (strength-building) exercises.
- Flexibility moves.
- A cooldown

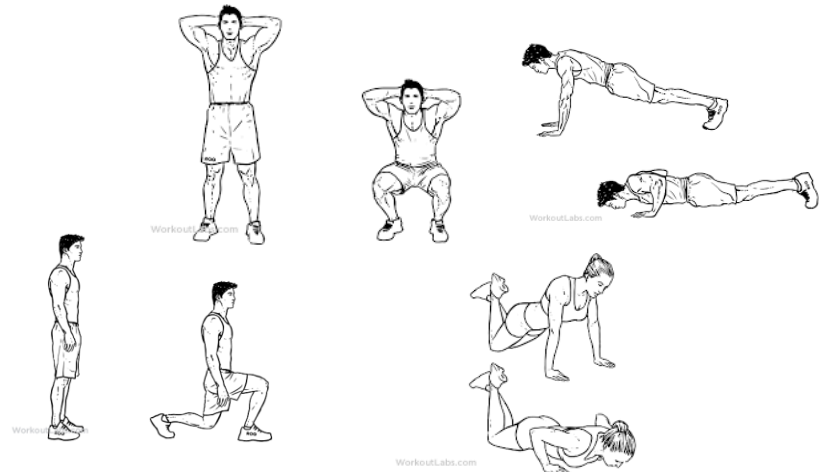


Simple Workout



- **Walk** – at least 20 minutes, have good shoes, rule-of-thumb 500 miles (cardio/muscle)
- **Interval training** – up pace 1-2 back off 2 – 4 (cardio/muscle)
- **Squats** – 12 reps - Keep your knees right over your ankles (muscles)
- **Lunges** - Bend your front knee to about 90 degrees (lower muscles)

- **Push-ups** - Facing down, place your hands slightly wider than shoulder-width apart. Place your toes on the floor. If that's too hard, start with your knees on the floor (chest, shoulders, triceps, and core muscles)



Simple Workout



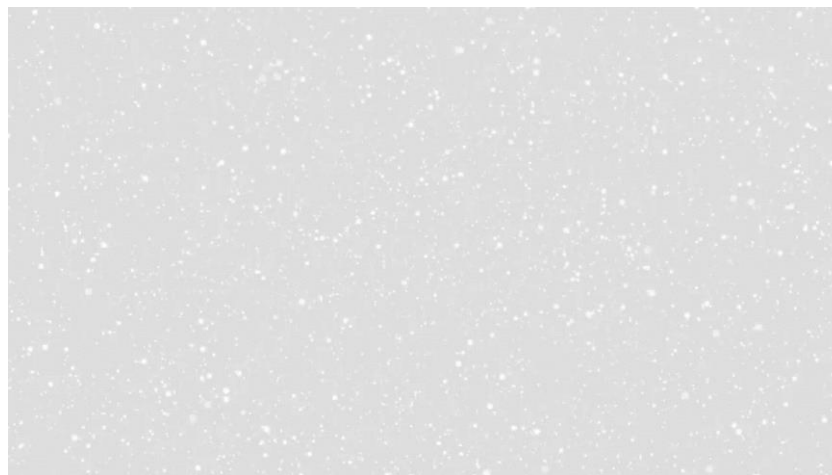
- **Crunches** - lying on your back with your feet flat on the floor and your head resting in your palms. Press your lower back down (abdominal muscles)
- **Bent-Over Row** - Stand with your feet shoulder-width apart, bend your knees, and bend forward at the hips. Engage your abs without hunching your back. Hold weights beneath your shoulders, keeping your hands shoulder-width apart. Bend your elbows and lift both hands toward the sides of your body. (upper back, as well as your biceps)



Just Exercise



- **Walk** - meaning take stairs, park further away, never take the easy route.
- Work in the yard
- Pick a sport you enjoy
 - Swim
 - Bike
- Work the hard
- Go Dancing
- Keep it in sight





Vitamins



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Vitamins



Vitamins are essential for the normal growth and development of a multicellular organism



Vitamins



Vitamin generic descriptor name	Vitamin chemical name (s) (list not complete)	Solubility	United States Recommended dietary allowances (male, age 19 -70) ^[1]	Deficiency disease	Upper Intake Level (UL/day) ^[1]	Overdose disease	Food sources
Vitamin K	Phylloquinone, menaquinones	Fat	120 µg	Bleeding diathesis	N/D	Increases coagulation in patients taking warfarin. ^[10]	Leafy green vegetables such as spinach, egg yolks, liver
Vitamin E	Tocopherols, tocotrienols	Fat	15.0 mg	Deficiency is very rare; sterility in males and abortions in females, mild hemolytic anemia in newborn infants ^[16]	1,000 mg	Increased congestive heart failure seen in one large randomized study. ^[18]	Many fruits and vegetables, nuts and seeds
Vitamin D	Cholecalciferol (D3), Ergocalciferol (D2)	Fat	10 µg ^[17]	Rickets and osteomalacia	50 µg	Hypervitaminosis D	Fish, eggs, liver, mushrooms
Vitamin C	Ascorbic acid	Water	90.0 mg	Scurvy	2,000 mg	Vitamin C megadosage	Many fruits and vegetables, liver
Vitamin B ₉	Folic acid, folinic acid	Water	400 µg	Megaloblastic anemia and deficiency during pregnancy is associated with birth defects, such as neural tube defects	1,000 µg	May mask symptoms of vitamin B ₁₂ deficiency, other effects.	Leafy vegetables, pasta, bread, cereal, liver
Vitamin B ₇	Biotin	Water	30.0 µg	Dermatitis, enteritis	N/D		Raw egg yolk, liver, peanuts, leafy green vegetables
Vitamin B ₆	Pyridoxine, pyridoxamine, pyridoxal	Water	1.3-1.7 mg	Anemia ^[19] peripheral neuropathy	100 mg	Impairment of proprioception, nerve damage (doses > 100 mg/day)	Meat, vegetables, tree nuts, bananas
Vitamin B ₅	Pantothenic acid	Water	5.0 mg ^[23]	Paresthesia	N/D	Diarrhea, possibly nausea and heartburn. ^[24]	Meat, broccoli, avocados
Vitamin B ₃	Niacin, niacinamide, Nicotinamide riboside	Water	16.0 mg	Pellagra	35.0 mg	Liver damage (doses > 2g/day) ^[25] and other problems	Meat, fish, eggs, many vegetables, mushrooms, tree nuts
Vitamin B ₂	Riboflavin	Water	1.3 mg	Ariboflavinosis, glossitis, angular stomatitis	N/D		Dairy products, bananas, popcorn, green beans, asparagus
Vitamin B ₁₂	Cyanocobalamin, hydroxycobalamin, methylcobalamin, adenosylcobalamin	Water	2.4 µg	Pernicious anemia ^[26]	N/D	Acne-like rash (causality is not conclusively established)	Meat, poultry, fish, eggs, milk
Vitamin B ₁	Thiamine	Water	1.2 mg	Beriberi, Wernicke Korsakoff syndrome	N/D ^[28]	Drowsiness or muscle relaxation with large doses. ^[29]	Pork, oatmeal, brown rice, vegetables, potatoes, liver, eggs
Vitamin A	Retinol, retinal, and four carotenoids including beta carotene	Fat	900 µg	Night blindness, hyperkeratosis, and keratomalacia ^[30]	3,000 µg	Hypervitaminosis A	Liver, orange, ripe yellow fruits, leafy vegetables, carrots, pumpkin, squash, spinach, fish, soya milk, milk

- Make sure you use to help, don't overdose
- Research your personal needs (You)
- If your on medications and if medical problems exists check physician
- Lastly – take with food – personally better





My Focus

You



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Motivation



- **First and Foremost – feel better each day**
 - To live
 - To provide for my family
 - To do more
 - To give more
 - To not give up



Exercises



Workout

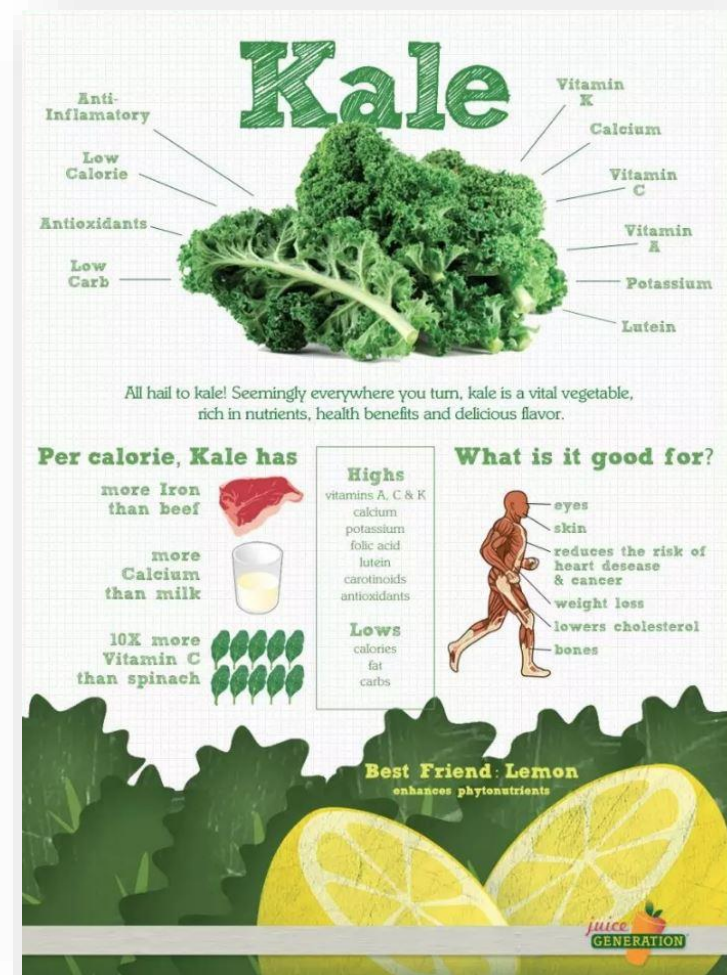
- Arms, legs and abs (Resistance)
- Cardiovascular



Food



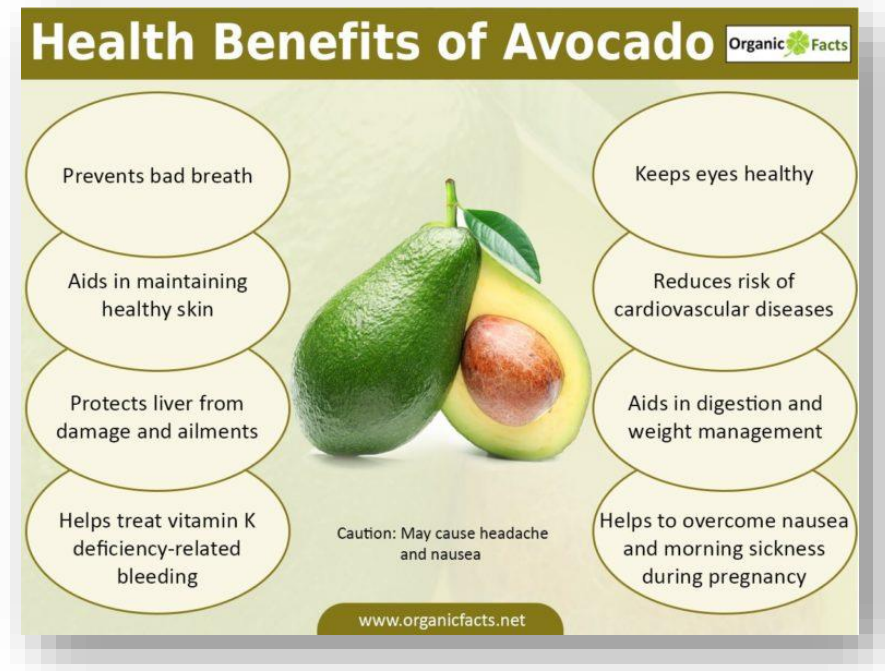
- **Kale** - lowers blood pressure, and fights against ocular diseases, looks after our nervous systems, calcium, antioxidants, healthy digestion system, provide cardiovascular support, omega-3 fatty acids, great detox ingredient
- **Spinach** - high in niacin and zinc, as well as protein, fiber, vitamins A, C, E and K, thiamin, vitamin B6, folate, calcium, iron, magnesium, phosphorus, potassium, copper, and manganese
- **Ginger** - relieving digestive problems such as nausea, loss of appetite, motion sickness and pain
- **Molasse** - Blackstrap molasses contains vital vitamins and minerals, such as iron, calcium, magnesium, vitamin B6, and selenium



Food



- **Cinnamon** - High Source of Antioxidants. Contains Anti-inflammatory Properties. Protects Heart Health. Fights Diabetes. Helps Defend Against Cognitive Decline & Protects Brain Function. May Help Lower Cancer Risk. Fights Infections & Viruses. Protects Dental Health & Freshens Breath Naturally
- **Cilantro** - good source of vitamin C, along with phosphorus, potassium, zinc, dietary fiber, calcium, iron, and magnesium
- **Parsley** - excellent of vitamin K and vitamin C as well as a good source of vitamin A, folate and iron
- **Avocado** - naturally nutrient-dense food and contain nearly 20 vitamins and minerals
- **Chia Seeds** - are a concentrated food containing healthy omega-3 fatty acids, carbohydrates, protein, fiber, antioxidants, and calcium



Food



- **Peanut Butter** - has protein as well as potassium — which lowers the risk of high blood pressure, stroke and heart disease.
- **Banana** - contain several essential nutrients, and have benefits for digestion, heart health and weight loss
- **Plant Fusion (Protein Mix)** - The only plant-based protein shake that compares to whey; enhanced with 4500mg of branched chain amino acids (BCAA) and 3,350mg of glutamine. PlantFusion is a complete and extremely potent source of protein by any standard. The first plant-based protein that compares to animal proteins (like whey) in amino acid density and balance.

BENEFITS OF PEANUT BUTTER



- Protein supports bones and muscle
- Improves digestion
- Reduces risk of Type II diabetes
- Helps to lower cholesterol levels in body

Caution: May cause allergy!

www.organicfacts.net

Any of these or other food products make sure YOU can handle the intake of nutrition

What can I do to live healthy (Cont.)



Nutritional Ground rules

- **Avoid eating a starchy carbohydrate** (fruit) by itself include a protein (nuts) and/or fat.
- **Stop eating** 2 – 3 hours before bed Sleep 7 – 8 hours
- **Make you the priority**
- **Drink Water** - – ideal your weight times 2 in ounces
- **Exercise for 20 minutes** – 60 minutes – 4 – 5 times a week
- **Eat breakfast or snack** 45 – 60 minutes after working out or after waking (1 cup of water immediately)
- **Eat every 4 – 5 hours**, ideally 3 meals, 1 snack with dinner being the smallest meal



Injury Prevention



RESEARCH INTERESTS



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Conclusion

Risk Management/Safety Programs



Risk Management Committee Responsibility



Group Activity



List on paper how many safety hazards you find?



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Homework Assignment



- **Assignment**

- Develop one Risk Management policies for your agency
Examples:
 - Driving and Driver requirement policy
 - PPE wearing and inspection policy
 - Requirements for Fireground Strategy and Tactics in relation to Resource availability
- Develop one Training policy for the members of the department addressing positions and ranks per certification requirements.

